Better Equipment for Southern Mills

# SOUTHERN EXTILE BULLETIN

VOLUME 26

CHARLOTTE, N. C., THURSDAY, JULY 10, 1924

NUMBER 19

# Are Those Old Spindles A Handicap to Your Mill?

- Do You Know that our Wire-Packed Bolster has prolonged the life of the Spindle and reduced the cost of Spindle maintenance?
- Do You Know that recent improvements to the Centrifugal Clutch Spindle have corrected the one weakness it developed by use?
- The Story of These Improvements and what they mean to you in your business is worth investigating. We have the men who can give you the facts. How you use the information is up to you.

Let's Talk It Over.

### DRAPER CORPORATION

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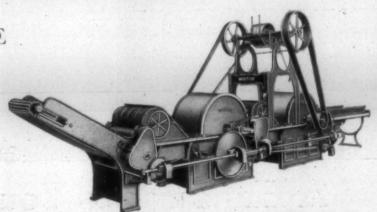
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BY



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They signify the different grades in which Thin Boiling Eagle Starch is offered to the textile industry.

Being the pioneers in the manufacture of Thin Boiling Starches, we are gratified at the widespread recognition they have received.

Be sure to select the grade had suited.

Be sure to select the grade best suited to your work. Our knowledge and experience is at your service.

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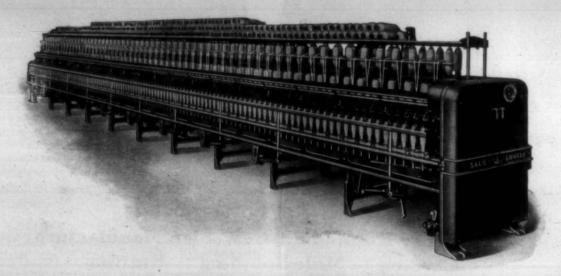
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LARGEST BUILDERS OF TEXTILE MACHINERY IN AMERICA



Saco-Lowell Model 17 Ring Spinning Frame

### MODERN SPINNING FRAMES

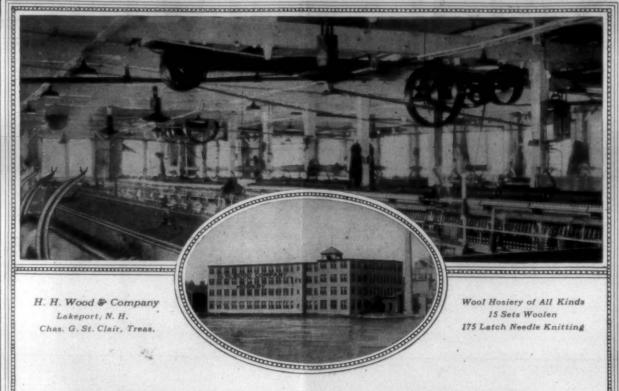
With greatly improved spindles and spindle drives, together with a higher standard of workmanship throughout the machine, permit the use of higher speeds and larger packages, which reduce the cost of production and improve the quality of the yarn and goods. They may be run at a profit when obsolete machinery must be shut down.

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#### ParkSpray Humidifiers in Woolen Manufacture Carding Mule Spinning Knitting



Humidifiers in Knitting Room

In this plant wool is carded, spun and knit. The Product is wool hosiery. ParkSpray humidifiers (with automatic regulators) have been installed in all these departments.

> "We are much pleased to advise you that the humidifier system which you installed is giving perfect satisfaction. It is a great benefit to us, and worth much more than the price of installation."

IT HAS BEEN DONE. It is being done. ParkSpray Humidifiers help to solve problems in the carding and spinning of wool-not to mention the knitting of it.



Parks - Cramer Company

Engineers & Contractors

Industrial Piping and Air Conditioning

Fitchburg Boston Charlotte



### HOUGHTON



"Yet neither spinnes, nor cards, ne cares nor fretts, But to her Mother Nature all her care she letts." Spenser—Faerie Queene

Chas. E. Carpenter is just telling you.

F we are to believe the famous artists, to whom we pay such fabulous sums to portray things as they were, the aboriginal man's dinner coat consisted of the natural skin of an animal and Eve's wedding gown was a leaf from a grapevine.

Instead of occupying Fifth Avenue mansions in the winter and Newport cottages in the summer, the old-timers dwelled in the caves which Nature provided.

The cave man knew of no Childs, Automats, Bellevues, Copley Plazas, Ritzs, or Biltmores, but just took a natural hunk, of natural food, in his natural mitt, and went to it.

But, as the Almighty developed the human intellect man's wants increased and Nature did not increase a single natural law, or a single source of supply, with which to meet these increased wants.

But the Almighty did utilize the improved intellect of man to enable man to take the original sources of supply and the original laws of Nature and so apply those laws to the original sources of supply and Nature's productions, as to enable man to satisfy his increased wants and desires.

Which is merely another way of saying that, as civilized man's wants and desires increased, Nature gave man the sciences, with which man treated the natural products, so as to satisfy his increased wants and desires.

In this great drama of life E. F. Houghton & Co., through the Houghton Research Staff, have been cast to develop the wants of the industries in Oils, Greases and Leathers, by applying the modern sciences to the natural products and thus adapting those natural products so that they are best suited to the modern wants and desires of the textile industries.

Thus, Houghton's Olive Oil Emulsion is the natural olive oil best adapted to oiling wool; Houghton's Warp Conditioner is tallow so manipulated as to make it best suited for conditioning warps; VIM Leather Belting is the best natural hide, tanned by the best process, which will make the best belt for textile machinery, etc.

Getting down to brass tacks, all of this means that the Houghton Products are the result of scientific research and the application of modern sciences to the natural products, in order to make them best for the modern requirements of the textile industries.

### E. F. HOUGHTON & COMPANY

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GREENVILLE, S. C.
P. O. Box 1143
Phone: Greenville 2316

ST. LOUIS, MO. 418 N. Third St. Phone: Olive 3559

AND IN EVERY OTHER TEXTILE MANUFACTURING CENTER OF THE WORLD

Oils and Leathers for the Textile Industry

# Engineering's Ceaseless Service is Building Southern Textile Greatness

Perhaps you are one of those progressive textile manufacturers who have wrestled with the question of "filling wind on warp" and then tabled it with a prayer that the day would come when some keen minded textile engineer would work out the problem for you.

The day has come! Engineering skill has, during the past three productive years, invented and made practical several tension devices to enable textile mills to enter a new era of efficiency.

It is now possible to spool from filling-wound bobbins as rapidly as from warp wound bobbins; and this also means an increase in front roll speed of at least 10 revolutions more per minute, with greatly reduced strain on the yarn. Hence a tangible increase in both production and quality of yarn, with a marked decrease in waste on the spoolers.

Things are a bit quiet in textiles now and this is the best of all times to write your manufacturer and get full information on how inexpensively you can make the change and how greatly you will gain by it.

Manufacturers and textile engineers are keenly interested in this campaign because it means entrenching the South still deeper in textile leadership. In industry there is no standing still—you either progress or slip backwards.

Mills that are equipping for "Filling Wind on Warp" are equipping to extract extra profits from every bale of cotton. When the market demand swings back will you be in line with the mills which are taking advantage of the present lull and present manufacturers' concessions, to bring their equipment up to date? Write your manufacturer about this topic NOW?

Let Us Keep The South Leading In Big Scale Production Of Quality Textiles

## Better Equipment Campaign

This advertisement contributed to by the jollowing firms:

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Whitin Machine Works
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Woonsocket Machine & Press Co.
Whitinsville Spinning Ring Co.
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# SOUTHERN EXTILE BULLET

PUBLISHED EVERY THURSDAY BY CLARK PUBLISHING COMPANY, \$9-41 S. CHURCH STREET, CHARLOTTE, N. C. SUBSCRIPTION \$2.00 PER YEAR IN ADVANCE. ENTERED AS SECOND CLASS MAIL MATTER MARCH 2, 1911, AT POSTOFFICE, CHARLOTTE, N. C., UNDER ACT OF CONGRESS, MAR. 3, 1879

**VOLUME 26** 

CHARLOTTE, N. C., THURSDAY, JULY 10, 1924

NUMBER 19

# Filling Wind on Warp

By Carl R. Harris, Inman, S. C.

satisfactory results and many mills sequently reduces our stoppage. room.

warp and filling he is enabled to change his operatives from one to the other without encountering difficulty. This perfect interchangeability may on the face of it seem small, but it constitutes a very decided advantage.

It has always been a difficult proposition to adjust the weight of our traveler to the two extreme differences in tension encountered with the warp wind and I might say that we never have or ever will be able to meet this difference as we would like while using warp wind. Whereas, with the filling wind this difficulty is almost entirely overcome and our tension can practically be kept the same from start to finish of the bobbin.

With the warp wind there is a difference of twist in the yarn on a full bobbin and an empty bobbin, and just when our twist is least our tension is greatest. This condition is almost entirely overcome by the use of filling wind and is a very decided advantage in favor of quality and quantity.

The two above conditions bear an important relation to breaking strength and it naturally follows that when we remove this trouble we are to expect better breaking quality and consequently better running work.

WE have long realized that there Heretofore, we have had to run a to expect that we can get an in- ing bobbin 8% inches by %. Later this method of spinning be adopted. only decrease the diameter of the speed.

were many advantages to be fairly large barrel bobbin to help crease in speed without affecting they reduced the bobbin to % inch derived from the use of filling wind take care of this difference in ten- the running of our work, and I, per- diameter, after some experimenting on warp spinning, but not until we sion and twist between the empty sonally, know that a good many and got excellent results, according could secure a satisfactory tension and full bobbin. With the adoption mills that have changed to filling to the report. The new bobbin has device for spooling this yarn could of filling wind we are enabled to not wind are getting a faster front roll a filling cone on the bottom, which

reap the benefits in the spinning would naturally increase our pro- be put on a bobbin with the filling bobbin. duction, even if we did not get an wind. This mill had been using a Every spinner can readily see the increase in roll speed. However, in warp bobbin 7½ inches long and % on warp wind, they put 3,500 yards advantage to be derived from hav- the elimination of the above men- inch in diameter. By dropping the of 40s yarns on a bobbin. On the ing his room on one kind of work, tioned disadvantages we have in- spindle rail so as to get about an filling wind, they were able to in-

is 11-16 inch at the base and tapers There has in recent years been barrel of our bobbin, but we can Some time ago I saw a report down to % inch, the size of the marketed several devices, which also run a longer bobbin. This gives from a mill that had changed from barrel of the bobbin. This cone, though far from perfect, give very us more yarn to the doff and con- warp to filling wind on 40s to 60s the report stated, reduced the strain yarn. The report stated that the incident to starting up when only a are turning to their use in order to The last mentioned item alone filling wind allowed more yards to small amount of yarn was on the

because with the same wind on creased our quality and it is natural inch more lift, they tried out a fill
crease this to 4,500. This increase in the number of yards per bobbin is one of the greatest advantages of filling wind, as it reduces doffing work, the mill making the change reporting that it now uses a fourth less doffers.

Another decided advantage of the filling wind system, as reported by this mill, was that it allowed them to increase the speed of the front roll by five turns per minute on 40s yarn, which of course materially increased production. They have also been able to use a traveler that is one number heavier.

In the spooling room, the mill reporting above stated that they were able to more than double the speed of the spindles and get off much more work. Spooling costs dropped because of the higher

While the above tests did not come under my personal observation, the results are in keeping with what every mill may expect to gain by changing to the filling wind method.

Southern mills have made rapid strides in recent years. The extent to which the "Better Equipment" idea is carried out by our mills will furnish an accurate index of their future progress.

### ADVANTAGES OF FILLING WIND ON WARP

- 1. The short traverse used with the filling wind on warp reduces the strain on the yarn.
- 2. The reduction in the strain permits the twist to settle more uniformly.
- 3. Filling wind permits warp spinning to run with less twist and thereby produces goods of superior feel and appearance.
- 4. Filling wind on warp reduces the breakage of ends and permits higher front roll speed.
- 5. Filling wind on warp frequently increases production 10 per cent and thereby reduces the cost of production.
- 6. Filling wind on warp means better and more evenly spun yarns with higher production and lower
- 7. The cost of changing to filling wind on warp is very small, as it only means the installation of special tension devices upon the spoolers.
- 8. Filling wind on warp would have been adopted years ago if suitable tension device had invented. Now they are for sale at low prices and are efficient.

# Recent Accomplishments in Research

that research means, "To make Paper Presented at the Twenty-third Annual Meeting of the Alumni searches concerning; investigate; Association of the Philadelphia Textile School.

researches concerning; investigate; continued and diligent investigation; in science, a systematic study of certain phenomena by the experimental method." We note further that to "investigate" is "to inquire into systematically," and that phenomenon is defined as "something visible or directly observable, as an appearance, action, occurrence, etc.

Boiled down, then, to its simplest form, research may be considered being continued, diligent and systematic inquiry into things directly observable as appearances, actions, occurrences. Keeping in mind the true definition of research will perhaps aid us in better comprehending its rather broad scope and wide application to present day industry.

Research is today carried on in some form or another, in practically all industries of any importance, and research departments (for they are now recognized departments of the business) have grown and expanded to such proportions, by reason of their accomplishments, that there is no longer any doubt as to their proper place and necessity in the industrial and business organization. Such great companies as General Electric, du Pont, General Motors and Ford are spending tremendous amounts of money annually in their research depart-ments and doubtless will continue to do so, because they have learned that such expenditure is not only justified by the results obtained, but actually necessary to proper progress and development.

It should not be inferred that research is a new thing, for such is not the case. While its recognition as a specific department of many industrial enterprises is in many cases comparatively recent, research has been carried on since the earliest times. In any group of men, in any line of work, there are always present some who persist in thinking about the work in which they are engaged beyond the mere actual requirements of the job it-This is fortunate and such men are known in any mill. For example, you recognize the chap who is forever probing and ques-tioning, and considering and experimenting as to how this would work, or why it could not be done this way, and how do we know these machines are functioning properly and alike. This type of man is always engaged in research, though his efforts in this sphere are not directed or officially recognized.

The fact that research, or let us say the urge of research, has been almost from its earlier stages is clearly revealed in a perusal of the bly encountered in surveys. National Association of Cotton Maned in manufacturing were discussed

were run in the early days too, and materials cost money over a period degree. as a department of many more cor-

covers a wide field. When an overhis head to investigate his machines as regards their mechanical condition, their speeds and settings, for the purpose of actually knowing whether they are in good condition, whether they all are set properly and alike and are all running at standard speed, he is just as truly engaged in research as the chemist who is working to produce a new color. And what is more, he is doing valuable piece of work, for it is a fact that such things as speeds and settings, even in the best of mills, vary greatly, one machine to another, resulting in lack of uniformity of product, loss of quality, and last but not least, loss of production.
In the same manner, it has been

observed that research may be well and profitably directed to the running organization. While there may not necessarily be a "best" organization of drafts and weights for a particular yarn, yet there is very certainly a definite range of good practice, and it has been found in many cases that properly considered changes may result in greater production and better running work of attending better quality. There are many cases in which a process may be eliminated in the production of purpose intended. There-are also will suffice where double roving has been employed. Such a change has lated saving.

Research has been found to be Such things as belts out of line, practically all studies. resulting in loss of power; over— The properly equipp loaded as well as oversized motors; is able to investigate for one reason or another; wastes arranged shafting, etc., are invaria-

the mill men were very generally of a year, even in a small mill, not alive to the results to be derived to mention the cost of steam and from investigation. And so, research the cost of poor-running weaving, in its true sense has always occu- which in many cases can be fo pied the minds of men to some some extent eliminated by effectual depending largely on the and well-controlled sizing. Every man, although as has been indicated single factor entering into slashing has only comparatively recently is of importance, from the raw mabeen really developed as a distinct terials to the moisture content of function of many industries as well the slashed yarn. There are lots of leakage points in the process, diporations representing these indus- rectly or indirectly-the raw materials, the cooking and the temper-In scope and application research ature and unifromity of tempera tures during sizing, the uniformity seer or second hand takes it into of sizing content in the yarn, section to section, etc. There is one mill which will save during the coming year upwards of \$30,000 in its slashing bill as a result of investigation. And so it is clear that this type of research may be and is being applied to all departments of the mill and is finding plenty to do. Speeds are always easily thought of as important because of their direct influence on production and, therefore, costs. And it is usually found that some speeding up can be applied in most all mills which have been studied. There is one mill in which a loom speed of about picks above the mill standard was tried on a section of about 70 looms, with results which were very comparable in all respects with those being obtained from the regular looms. This was reported after the test had been running for two months or so. The case is rather extreme and a longer test period may not show such favorable results. However, the point is that we are too prone to accept certain ways of doing things and certain speeds, without an effort to deter-mine if better ways and higher speeds are not possible.

be eliminated in the production of The laboratory, of which there are uable character. It is very seldom an entirely satisfactory yarn for the many now connected with various that a good photograph fails to find is rendering a very real and and record the cause of the trouble. and in such capacity it is contriba certain mill and something less questions. Application of laboratory than \$100,000 annually is the calcu-facilities to investigation of many mill problems is being made and most beneficial results.

a part of our textile development in power distribution through poorly fibre strength and length, evenness tion. and degree of fineness and natural Such twist, all of which characteristics studies have resulted in corrections admittedly have an important bearufacturers' Transactions, wherein which have always effected appre- ing on the final product. Such in- Association. This organization was we find that practically all of the ciable savings in the mill power vestigation has in many cases established in 1918, and is maintain-present-day major questions involv- bill. The slashing department is a fer- process effects on fibre length and gaged in any of the branches of the at length in open meeting; and tests tile field for investigation. Sizing strength, conditions wherein the

staple was being injured by improper manipulation in certain processes. For example, excessive beating in the pickers has been discovthe application of strength tests, a decided drop having been observed at the card; improper roll settings in the roving and spinning processes have caused breakage which was readily made apparent by fibre length tests of the products of the several processes. In both exemplary cases, the conditions were easily corrected after the causes were discovered by means of such analyses.

A great deal of study has been devoted to certain fabrics which have given trouble, and usually always with the discovery of the unsatisfactory causes of Photography has been found to be great help in such work, as well as in other types of work, for in many cases a properly magnified photograph representative of the cloth structure will bring to light the true conditions to better advantage than will the usual physical tests. In all cases the photographic contribution has been found to be very important and helpful adjunct to the information supplied by fabric analysis.

Photography has also been found be especially helpful in studies of slashing, cross-sectional photo-graphs of the sized yarn affording pretty definite evidence as to the nature of the sizing, is penetration and unevenness or lack of evenness of the size ring. Other applications are concerned with studying sizing ingredients and the nature of the mixture to determine if it has been properly cooked.

Very often it is desirable to provide a permanent record of an unusual characteristic of a material, such as a failure in service or a defect in the material responsible for a failure, and such conditions are readily photographed and are naturally of an interesting and val-

many cases where, with a proper helpful service. It functions or It has been attempted to discuss change in organization, single roving should function in close co-opera- in a rather general way this type of tion with the mill and its problems, research which is being applied in various laboratories throughout the recently been put into operation in uting solutions to many and varied textile industry. It seems that there a certain mill and something less questions. Application of laboratory is no limit to the nature and number of calls which are made on the laboratory and it is seldom that the The laboratory has been unable to conjust as appropriate to the power and laboratory "slant," as we sometimes tribute some worth-while assistance mechanical functions of the mill, call it, is a very potent factor in to the mill, finishing plant, or sales organization in response to such The properly equipped laboratory calls. Thus is the research departise able to investigate the bale and ment meeting the demands of inmotors running below proper speed processed cotton for the purpose of dustry, studying its problems and determining such vital things as contributing largely to their solu-

> A more fundamental type of research is being carried on by the British Cotton Industry Research

(Continued on Page 12)

# The Filling Wind System Is Better Equipment Only When The Spooling Is Right

The economy in spinning, spooling and succeeding operations in the mill, when filling wind spinning is used, has been exhaustively tested and is now conceded by practical cotton manufacturers and mill engineers generally.

But success or failure of the Filling Wind Method is controlled largely by the Key Operation—Spooling.

If Filling Wind Spooling is NOT more economical than Warp Wind Spooling, the cause is usually an improvised or unscientifically designed tension attachment on the Spooler.

### The Foster No. 32 Spooler Guide Insures Perfectly Filled Spools, Low Spooling Cost, No Kinks

This Spooler Tension Guide has been designed for mills that are interested in changing their spinning from Warp Wind to Filling Wind, or who now have Filling Wind, but on account of spooling difficulties or spooling costs, have been unable to develop the full economy of the Filling Wind method.

Its function is to build a spool of yarn of even density throughout, making the spool soft or as hard as desired; containing the highest possible yardage and free from all kinks.

The important feature is that tension on the yarn may be changed quickly to suit different yarn conditions and when determined will not vary and cannot be put out of adjustment or tampered with. The No. 32 Spooler Guide has been developed for use on any make of spooler and in connection with any make of slub-catcher guide.

May we have the privilege of explaining to you in detail the big part played by the Foster No. 32 Spooler Guide in the success of the Filling Wind method?

## Foster Machine Company

**OFFICE AND WORKS** 

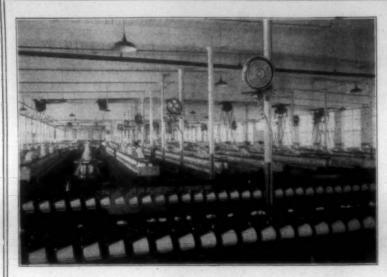
WESTFIELD.

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**MASSACHUSETTS** 



"Better Humidifying Equipment" in operation in Ruby Cotton Mills, Gastonia, N. C.

### The Season for Installing Better Humidifying Equipment.

One of the likable features of the Bahnson System is its flexibility.

Many manufacturers take advantage of the fact that each Bahnson Humidifier is a complete humidifying unit in itself by installing a few at the time and adding others when funds are most available, thus reducing the initial cost of a humidifying system, but at the same time getting humidity into those departments where it is needed most.

If your present system is wearing out, use a few Bahnson Humidifiers to strengthen it as the old ones give out, until the worn out system is replaced.

If your present system does not meet your requirements, use Bahnson Humidifiers to bring it up to the desired

If you have some small departments in which you want humidity—a laboratory or a test room perhaps—use a Bahnson Humidifier.

In short—Bahnson Humidifiers will fit into practically any department in your mill at any time-Economically and Efficiently.

And if you want your entire mill equipped with a BET-TER humidifying system, use BAHNSON HUMIDI-FIERS.

Our services are yours for the asking.

### The BAHNSON Company

**Humidification Engineers** 

Winston-Salem, N. C. New York Office: 437 Fifth Avenue

### Southern Mill Dividends

A list of dividends paid by many Lancaster Cotton Mills, 31/2 per Southern mills for the six cent; \$80,000 preferred, \$28,000. months ending June 30 has been Laurens Cotton Mills, 4 per cent; compiled by A. M. Law & Co., bro- \$1,050,000 common, \$42,000. kers, of Spartanburg.

#### South Carolina Mills.

The following is a list of South \$750,000 common, \$22,500. Carolina mills with the dividend Martel Mills, 1 per cent rate, the capital stock and stock and stock are stock as a second stock and stock are stock as a second stock and stock are stock as a second s rate, the capital stock and the \$1,000,000 common, \$10,000 amount of the dividend:

Martel Mills, 1% per common amount of the dividend:

cent; \$635,400 common, \$22,239.

Alice Mills, 31/2 per cent; \$500,000 000,000 common, \$105,000.

preferred, \$17,500. American Spinning Co., cent; \$525,000 common, \$26,250.

Aragon Cotton Mills, 2 per cent Aragon Cotton Mills, 3½ per cent; \$264,700 Aragon Cotton Mills, 3½ per cent; preferred, \$9,264.50.

Oakland Cotton Mills, 3 per cent; Oakland Cotton Mills, 3 per cent; quarterly; \$500,000 common, \$10,000. \$460,000 preferred, \$5,600.

Arcadia Mills, 51/2 per cent; \$200,-000 preferred, \$10,000.

Arcadia Mills, 31/2 per cent; \$800,-000 preferred, \$28,000.

Baldwin Cotton Mills, 4 per cent annually; \$800,000 common, \$32,000.

Baldwin Cotton Mills, 7 per cent 000,000 common, \$100,000. annually; \$182,400 preferred, \$12,768. Pacolet Mfg. Co., 3½ Beaumont Mfg. Co., 5 per quarterly; \$200,000 common, \$10,000.

200,000 preferred, \$6,000. Piedmont Mfg. Co., 4 Belton Mills, 3½ per cent; \$1,400,- \$1,600,000 common, \$64,000.

000 preferred, \$49,000.

000 preferred, \$17,500. Brogon Mills, 2 per cent quarterly;

\$1,321,600 common, \$26,432. Chesnee Mills, 5 per cent; \$394,000

common, \$19,745. Chiquola Mfg. Co., 5 per cent;

\$358,000 common, \$17,900. Chiquola Mfg. Co., 3 per cent;

\$358,000 preferred, \$10,740. Clifton Mfg. Co., 4 per cent; \$2,-500,000 common, \$100,000.

Clinton Cotton Mills, 4 per cent; 515 \$350,000 common, \$14,000.

Cowpens Mills, 4 per cent; \$100,-000 preferred, \$4,000.

\$300,000 common, \$10,500.

Dunean Mills, 134 per cent quarterly; \$1,000,000 preferred, \$12,500.

Enoree Mills, 1% per cent quarterly; \$365,000 preferred, \$6,387.

common, \$15,000.

Fairmont Mfg. Co., 31/2 per cent;

\$150,000 preferred, \$5,250. Gaffney Mfg. Co., 3½ per cent; \$1,600,000 common, \$56,000. Glenwood Cotton Mills, 2 per cent;

\$1,200,000 common, \$24,000. Gluck Mills, 5 per cent; \$450,000

common, \$22,500. Grendel Mills, 31/2 per cent; \$750,-

000 preferred, \$60,000. Hartsville Cotton Mills, 31/2 per

cent; \$750,000 common, \$60,000. Inman Mills, 31/2 per cent; \$600,000 common, \$21,000.

Jackson Mills, 4 per cent; \$345,000 common, \$13,822.

Judson Mills, 3 per cent plus 1 per 500 plus 22,500. 500x22,500.

Judson Mills, 1% per cent quar- \$600,000 common, \$30,000. terly; \$1,000,000 preferred, \$12,500. Dacotah Cotton Mills, 3½ per cent; Lancaster Cotton Mills, 5 per cent; \$35,100 preferred, \$1,228.50.

\$1,600,000 common, \$80,000.

Lydia Cotton Mills, 4 per cent; \$160,000 common, \$6,400.

3 per cent:

Martel Mills, 1 per cent quarterly;

mount of the dividend:

Abbeville Cotton Mills, 3½ per terly, \$1,071,400 preferred, \$18,749.50. Monarch Mills, 31/2 per cent; \$8,-

> Monarch Mills, 31/2 per cent; \$1,-5 per 000,000 preferred, \$35,000. 50. Mills Mill, 4 per cent; \$264,700

common, \$10,588.

\$50,000 common, \$15,000. Orr Cotton Mills,

\$800,000 common, \$32,000. Orr Cotton Mills, 31/2 per cent;

\$800,000 preferred, \$28,000. Pacolet Mfg. Co., 5 per cent; \$2,-

Pacolet Mfg. Co., 3½ pc \$2,000,000 preferred, \$70,000. per cent;

Pickens Mills, 2 per cent quarter-Beaumont Mfg. Co., 3 per cent; ly; \$750,000 common, \$15,000. \$200,000 preferred, \$6,000. Piedmont Mfg. Co., 4 pe

4 per cent;

W. Poe Mfg. Co., 2 per cent Brandon Mills, 31/2 per cent; \$500,- quarterly; \$2,000,000 common, \$40,-000.

Poinsett Mills, 3 per cent; \$474,-000 common, \$14,220.

Saxon Mills, 3 per cent; \$900,000 common, \$27,000.

Spartan Mills, 4 per cent; \$2,000,-000 common, \$80,000. Toxaway Mills, 2 per cent quar-

terly; \$500,000 common, \$10,000

Victor-Monaghan Co., 1% per cent quarterly; \$1,058,000 preferred, \$18,-

Ware Shoals Mfg. Co., 4 per cent; \$1,000,000 common, \$40,000.

Ware Shoals Mfg. Co., Darlington Mfg. Co., 31/2 per cent; cent; \$300,000 common, \$10,500.

Whitney Mfg. Co., 31/2 per cent; Darlington Mfg. Co., 3½ per cent; \$600,000 common, \$21,000. \$500,000 preferred, \$17,500. Williamston Mills, 2½

Williamston Mills, 21/2 quarterly; \$600,000 common, \$15,000. Winnsboro Mills, 2 per cent guarterly; \$2,000,000 common, \$40,000.

Winnsboro Mills, 1% per cent Equinox Mills, 5 per cent; \$300,000 quarterly; \$2,500,000 preferred, \$25,-

Woodruff Cotton Mills, 3 per cent; \$787,500 common, \$23,625.

Woodside Cotton Mills Co., 31/2 per cent; \$1,763,760 common, \$61,731.60. Woodside Cotton Mills Co., 3½ per cent; \$2,263,760 preferred, \$79,231.60.

The dividend figures for a large

number of leading mills, located in other States, with the rate, capital stock and amount of dividend fol-

Altavista Cotton Mills, 31/2 per cent; \$250,000 preferred, \$8,750.

Bladenboro Cotton Mills, cent; \$265,000 common, \$7,950. Columbus Mfg. Co., 4 per cent;

\$1,400,000 common, \$56,000.

Dacotah Cotton Mills, 5 per cent;

(Continued on Page 28)

# At Last You Can Reap The Advantages of Filling Wind Without Fear of Tension Trouble

What cotton mill man has not at some time longed for the advent of a satisfactory spooler tension device, which would enable him to abandon warp wind and adopt the newer and more efficient filling wind method which reduces waste and gives so much greater production and so much better running work?

Cotton manufacturers have stuck to the warp wind method only because they had been unable to find a thoroughly satisfactory device which would furnish the correct amount of tension necessary in winding a filling wound bobbin onto a spool. Cotton mill machinery makers, until recently, have frowned on tension devices, not because of any hostility to filling wind, but because none of the devices on the market fully met the Fundamental Requirements of An Ideal Tension Device problem under all conditions.

Because it fully meets every one of these requirements both in the testing laboratory and in practical everyday work in the cotton mill, and is the only tension yet devised which does meet them all fully in everyday practice, the

### L. V. B. Spooler Tension Device

is presented to the cotton manufacturing industry as the long-sought "Perfect Tension" which will make it possible for any cotton mill, regardless of the class of work it does, to adopt the filling wind method and reap the advantages that are universally admitted to go with it.

#### Even Tension

The L. V. B. device maintains an absolutely even steady tension no matter how fast or slow the yarn runs, whether the spool or the bobbin be empty or full and regardless of the position of the traverse.

### Instantly Adjustable

The L. V. B. Tension is instantly adjusted merely by moving the weight to any given position, and can be used on any size yarn from the coarsest to the finest, not excluding numbers about 150s. The tension is positive and absolutely uniform at all times.

### Self-Cleaning

The L. V. B. Tension is self-cleaning, being cut out under the tension arm with the exception of two cylindrical pins over which the yarn passes. Lint and dust have no place to collect, but fall directly onto the floor.

#### Self-Threading

The L V. B. Tension is self-threading. A wire guard serves to guide the yarn into position after the end is pieced up. The natural motion of the yarn keeps it in proper position afterward.

### **Extremely Sensitive**

The L. V. B. is the most sensitive tension on the market. The pressure is applied through a weighted spring. It has plenty of give to meet all irregularities in the yarn without bouncing or binding, and the fact that there are two pressure points makes it impossible for the tension to relax even for the most infinitesimal fraction of a second. It is the most perfect substitute for the human finger that has yet been devised.

#### Successful At Any Speed

It is simple to attach to any form of cotton mill machinery where a tension is required, and does not fasten to the traverse rail. It will work equally well at any speed with any size bobbin or spool and with any size yarn. In the mills where the L. V. B. Tension is already in use it has been found perfectly feasible to run the yarn at speeds as high as 1200 to 1500 R. P. M. Every mill man knows what this means from a production standpoint.

We are willing to have you base your opinion of this device on its actual performance and will be glad to install a sufficient number of devices in your mill on approval. No obligation on your part, until the device convinces you that it is practical.

### A. B. CARTER

Southern Agent GASTONIA, N. C.

# Stein Halls HAWK THIN BOILING STARCH

CLEAN **FULL STRENGTH** UNIFORM DEPENDABLE

Your order will receive careful attention whether it be for one bag or a carload.

## STEIN, HALL& CO,, INC.

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QUALITY AND SERVICE SINCE 1866

#### Recent Accomplishments in Research

(Continued from Page 8)

textile industry. The purposes of this association, as quoted from the "Shirley Institute," March, 1922, are as follows

"The objects of the British Cotton Industry Association have been explained in detail in a pamphlet published by the Provisional Committee, under the title of 'Scientific Research in Relation to Gotton and Cotton Industry.' It was there pointed out that the success of the cotton industry, like that of others, is dependent on cheaper and better production; that our supremacy can only be maintained by the carefully planned, systematic and continued application of science to the principles and practice of the industry, and that is it could hardly be expected that individual firms or even large associations would undertake such a task separately; a research association embracing all sections of the industry was necessary. The industry as a whole must become imbued with the spirit of science in order that it may utilize, to its own fullest advantage, the results of scientific research.

"Emphasis was placed also on the fact that the usefulness of any dis- perimental and coveries which may result will de which has been fully discuss pend largely on the intelligence the department's publications. brought to bear upon them by the different sections of the industry.

the necessity, of research if the industry is to progress and develop.

association has contributed interesting and valuable reports of many taken the form of what we would book, term "fundamental research," and Ford organ. lished at intervals:

and its Botanical Aspects.'

Raw Cotton.'

Cotton Hair.

ton. "The Mechanical Testing of Cot-

ton Materials.' "The Mercerization of Cotton."

Cotton. ature.

"The Lustre of Doubled Yarns."

Under Oscillating Stresses."
"A Comparison of the Yarn Spun

This affords a very small inkling into the nature and scope of the work undertaken thus far, but is sufficient to indicate that the British Association is delving into explored or only partly explored fields of well merited study for the purpose of augmenting present-day fundamental knowledge covering a very wide range of important subjects. That the cotton industry will benefit from this type of work cannot be questioned, even though the results in all cases may not be recognized immediately.

We have no similar organization in this country, although several of the government departments, notably the Bureau of Standards and the Department of Agriculture, which more closely approach it than any other agencies, have done and are doing a great deal of a similar type of work which is benefiting the industry as a whole. The Bureau of Standards has made a great number of original researches and has also been a vital factor in standardization throughout the industry. Department of Agriculture has gone far in its comprehensive studies of cotton, from the growing to the grading and marketing, and great benefits and improvements all along the line have resulted from this exresearch which has been fully discussed in

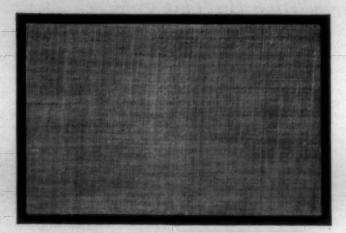
After all is said and done, one of fferent sections of the industry." our greatest needs in industry as a It is quite evident that the leaders whole and certainly in the textile in the British cotton industry are industry, is that of producing and fully alive to the advisability, if not manufacturing more cheaply, since selling lower costs mean lower prices, which in turn stimulate buy-During the several years which ing on the part of the masses and have followed its establishment, this thus the greatest good for the greatest number is accomplished. Per-haps one of the most outstanding investigations which have been con- examples of producing cheaply is ducted in its laboratories in the to be found in the Ford Motor Com-Shirley Institute. As has been indi- pany, and this subject is dealt with these investigations have in a chapter of Henry Ford's recent the form of what we would book, "My Life and Work." Mr. fundamental research," and Ford shows that the price trend of an idea of the subjects studied may his product has been downward be obtained from the following list from the beginning, barring occa-which has been prepared more or sional interruptions due to difficult less at random from the Institute's conditions and unusual circum-The Journal of the Textile stances. These lower prices have, a monthly publication of course, gone hand in hand with bearing a wealth of interesting and increased production, but it is sigvaluable reading, and from the In- nificant that Mr. Ford's point is that stitute's "Memoirs," which are pub- "if prices are sufficiently low; buyers will always be found, no matter "The Structure of the Cotton Hair what are supposed to be the busi-id its Botanical Aspects." ness conditions," and thus far his "The Measurable Characters of aim has been to produce cheaply and more cheaply in order to make pos-Study of Convolutions in the sible these continuous reductions in otton Hair." the selling price of his product, "The Chemical Analysis of Cot- from year to year. The narration of how Mr. Ford has brought about his lower costs, while at the same time perfecting his product, provides most interesting reading. The Physical Causes of Lustre in savings through elimination of waste have been nothing short of prodigi-"Sizing: A Review of the Liter- ous. The greatest factors in such ure." the application of research methods "Some Physical Tests on Sized in the various processes and de-rns."

The Physical Properties of Yarns zation and decentralization of work. To quote Mr. Ford:

"A Comparison of the Yarn Spun "Standardization, then, is the final on the Casablancas System With stage of the process. We start with Ordinary Ring Yarn, etc."

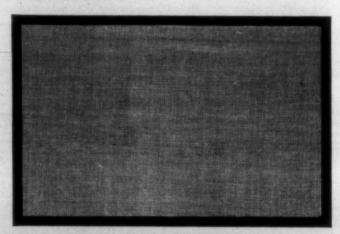
### Imported Cotton Cloths

From Survey of United States Tariff Commission.



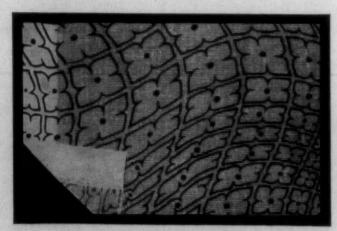
Sample No. 32.—Cotton Mull.

Plain woven. Finished width, 44 inches. 94 ends and 92 picks per square inch, finished. Warp yarn, 87s. Filling yarn, 117s. Weight, 10.07 linear yards (12.31 square yards) per pound, finished. Bleached and mercerized.



Sample No. 33.—French Lawn.

Plain woven. Finished width, 47 inches.
78 ends and 76 picks per square inch, finished.
Warp yarn, 99s. Filling yarn, 107s.
Weight, 11.67 linear yards (15.24 square yards) per pound, finished.
Bleached.



Sample No. 34.—Ply Voile.

Plain woven. Finished width, 38 inches.
69 ends and 56 picks per square inch, finished.
Warp yarn, 110/2, hard twisted. Filling yarn, 110/2, hard twisted.
Weight, 8.81 linear yards (9.30 square yards) per pound, finished.
Bleached, and printed with a warm bine.

Bleached, and printed with a wavy blue design.

### WATER-PROOF

THE greatest forward step the belting industry has ever known was the invention of water-proof leather belting. This was accomplished in 1860 by J. B. Hoyt, founder of the Edward R. Ladew Company.

This first water-proof leather belt was known as Hoyt's "Turtle." Ladew has kept this pioneer brand. They have improved it as belting science developed. To-day "Turtle" still stands as an acknowledged leaderguaranteed for service in water or moisture.

If you have drives that must operate under conditions which destroy ordinary belting, get lasting satisfaction and economy by using "Turtle" Water-proof Leather Belting.

### EDW. R. LADEW CO., Inc.

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# Advantages of Better Mill Equipment

### Articles Submitted in Prize Competition On This Subject.

#### Number Sixteen

During the last few years there have been so many improvements in cotton mill machinery and so many labor-saving devices offered that have enabled us to increase production and at the same time lower the cost of same that it is a difficult task for one to determine just which improvement deserves the greatest praise.

However, speaking from personal coarse goods mill of 8,000 spindles horsepower, I can think of no machinery or device which we have installed during the last ten years that has been of greater value to us-considering the cost-than has the Force Draft System which we draft induced by the smokestack.

System to which we refer

operates as follows: crank shaft of a specially designed savings on fuel. upright engine which is driven by steam from the boiler. There are air conveyers leading from the fan to the burners, or grates, under the boilers, and the air draft is fed through the grates from the under The burners are specially designed for the work with spaces about 18" thick and about 112" apart. These small openings allow only the finest dust and ashes to sift through into the troughs beneath and at the same time permit the draft to filter through the grates in a uniform manner, covering the entire area of the grates simultaneously. In connection with the fan and engine there is an automatic device for varying the speed of the engine. Of course, as the speed of the engine varies, so does that of the fan since the fan is directly connected to the crank shaft of the engine, and as the speed of the fan varies, so does the amount of draft which is produced by the fan. As the steam pressure in the boiler rises to the desired height, this automatic device slows down the speed of the engine and in turn cuts off the draft, then as the steam pressure is grad-ually lowered in the boiler, this device speeds up the engine and increases the draft thereby causing more intense heat until the desired pressure is again obtained. This control device contains a gauge which can be so set that the engine will speed up or slow down at any desired steam pressure in the boiler. In our particular plant we have it set so that it will slow down at 120 pounds pressure and speed up at 115 pounds pressure.

When the salesman first presented

to us the advantages of the Force Draft System we were skeptical of continually during the years since better equipment, man himself must the results which we might obtain, 1916, during which time it has paid strive to equip himself better or go and we were persuaded to purchase for the original cost many times stale.

To better equip does not mean a permitted to pay for the cost of the only has there been a great saving mill must replace all their machin-equipment, which was \$2,500, out of in dollars and cents in the fuel ac- ery. They may have a poor out-of-the savings obtained in our fuel by count but we feel that this system date system of opening, so by only chase was made with a written steady steam pressure and hence ity) ten or more per cent, or they guarantee from the distributor that adequate power. Previous to the may replace their pickers with like we would be able to burn all kinds installation of this system we were results. experience in connection with a and that with the system installed, uses something like 450 than we had been using mine run to shut down a part of our machinhorsepower developed. per coal tributor's claims and we found that ing on the fuel. by using the force draft system we placed under our boilers in 1916. were able to get as good results from Previous to 1916 we had used what the use of slack coal as we had is usually termed the "Natural previously gotten from mine run Draft" system, that is, the natural coal under our old method. By figuring the difference in the price of The principle on which the Force mine run and slack at that time we were able to save about \$140 per month. Payments were arranged on There is a large fan placed near this basis and at the end of the first the furnace, the propellers of which eighteen months the force draft equipment in Southern cotton mills fan are directly connected to the system had paid for itself out of the is as modern or almost up to any crapk shaft of a specially designed sayings on fuel.

the use of said system. In addition has increased our production mateto this form of payment our pur- rially by enabling us to maintain a of marketable coal upon its grates, annoyed almost daily by the fire-and that with the system installed, men's inability to keep the steam mill in South Carolina commenced we would use no more slack coal up and frequently we were forced replacing their old machinery with ery while steam was being raised. Following the installation of the Overcoming this difficulty has been system we made a number of tests worth the price of the system to us mills in the State. which verified the truth of the diseven if there had been no real sav-

consider this system as being indispensable.

Mike.

#### Number Seventeen

In beginning an article on this subject I must acknowledge that the

We have used this same system ning of labor-saving machines for

putting in vertical openers increase the production (quantity and qual-

About twelve years ago a certain new and up-to-date machines by only a machine or so per year. Now they have one of the best equipped

Some mills have almost an up-todate equipment in the carding de-For mills using coal for fuel we partment, with out-of-date spinning and looms. Others may have modern spinning, but old card room equipment. A few old out-of-date machines can only be a drag to the entire mill.

For the last ten or twenty years the advancement and improvement in carding and spinning machinery has been on a real high plane. It is almost possible now to equip an ideal mill for either plain or fancy weaving. We can almost see a mill in the near future where they have no stamp for seconds and where there is a smile on the face of a cross-eyed sweeper.

Such a mill equipped today would have (as I see it) for carding department:

Vertical Openers - Modern ball bearing pickers, modern top flat cards with dustless strippers, low speed metallic roll ball bearing drawing, ball bearing rolls on all fly frames, plenty humidity.

Spinning - Modern tape drive, plenty humidity.

Weaving — Any good automatic change loom, plenty humidity.

A regular uniform system of oiling in all departments.

There are two mills in my neighborhood with almost the two extremes in machinery equipment. One mill (which we will call Mill No. 1) has old out-of-date opening, pickers, cards and fly frames. The spinning is also of the old out-of-date make. But this mill has modern looms.

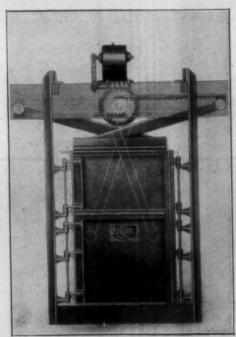
Mill No. 2 has a large opening room where there can be from 50 to 100 bales of cotton opened at once and mixed. Vertical openers: Modern ball bearing slow speed pickers making a light lap for modern dustless stripper cards with high speed licker-in making a sliver (the carder said) seldom varied 2 per cent. Modern slow speed metallic roll drawing, good make fly frame with ball bearing rolls, plenty (clear water) humidity, modern tape drive spinning, an upto-date circulating system for size and modern slow speed slashers.

(Continued on Page 31)



### YARN PRESS

-Completely Inclosed Chambers Direct Motor Connected-"JUST WHAT EVERY YARN MILL NEEDS"



This Economy yarn baling press is unquestionably the last word in baling press development.

Chamber completely inclosed—no openings. The chamber is made up of four sets of doors, so that the ends of the chamber open as well as the sides. The four doors, however, lock at two corners by a very simple locking device.

This new yarn press produces a bale 36' long by 24 wide, of 12 to 15 cubic feet, weighing about four hundred pounds and overmaking it possible to produce bales 24 to 36 inches deep, weighing from two hundred and fifty to four hundred and fifty to four hundred po und s and over. C ham be er five feet deep. Equipped with a directly connected electric motor capable of pulling up to 10 horse torque, alternating current 2 or 3 phase, 50 or 60 cycle, 220 or 550 volt.

The end doors as well as the sides, swing out independently, leaving all four sides of the bale exposed.

We should like very much indeed to confer

this Economy yarn press, and assure you that you would receive satisfactory service. The users of press are well satisfied with this yarn press, because it is convenient to load with great pressure and rapid in operation. Very substantially constructed.

ECONOMY BALER CO.

Dept. S. T. Ann Arbor, Mich.

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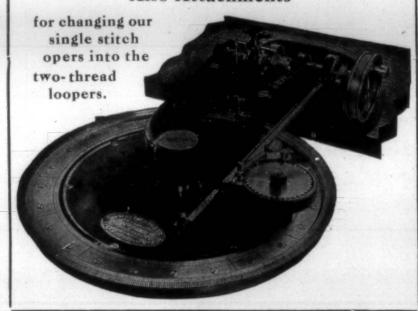
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Mechanical and construction principles do not alone explain the selection of TOLHURSTS by the nation's leading industries does actual performance during the past forty-five years explain, though it amply justifies the wisdom of their choice.

Preference is due to their being built by Extractor Specialists whose experience and ability are part of every machine. All factors confidence that HURSTS will render the utmost in service.

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New York Office: 111 Broadway

### Knit Goods

#### Specking Knitted Fabrics

fabrics is to remove the fine pieces of burrs, shives, bits of straw or any foreign substance which has escaped the preliminary processes and clung to the texture until the goods are nearly finished and ready for the market. These prickly pieces of vegetable matter are exceedingly annoying in any fabric which is worn next to the skin owing to the scratching and irritating they cause. Before the days of efficient carbonizing of textile fiber many of these foreign substances frequently remained in the completed article of wear indefinitely or until the wearer of the garment pulled them out. Modern processes of eliminating the vegetable substances of this character have done muc htoward correcting the trouble. Still there are specks in some goods caused by poor cardinf, consisting

If a piece of burry knitted fabric is placed beneath a magnifying glass THE object of specking knitted and the texture enlarged, as shown in Figure 1, it will be noticed that some of the burrs have attached themselves very firmly in the loops as indicated by the solid black piece representing a burr.

If the entire length of the burr

is enclosed within the grip of the threads of the loops the wearer of the garment will not be bothered very much by it. But in most cases the thin, stiff, elastic point of the burr projects outward just far enough to form a powerful scratching property. The reputation of a manufacturer of knitted goods can be seriously affected by turning out a product containing burry substances. Girls are employed to attend to these burrs in case burry stock has been used, but even the sharpest of young eyes cannot detect all of these miniature foes. Some of the burrs are almost completely concealed in the texture, but manage to work their destructive points out after the garment has been worn. Some are so securely attached that it is not possible to remove them without endangering the loops. A hole might be made in the goods and rather than cause such a defect the girl lets the burr pass. Hence carbonizing of the stock is resorted to if it is of the animal class.

Carbonizing Burry Stock.

Sulphuric acid is extensively used in the process of carbonizing the burry stock out of animal fiber, although chloride of alum, strong salts solutions, acid vapors and chloride of magnesium are also used for this service. The stock to be treated may be all animal fiber or it may be of the remanufactured class containing cotton, silk, linen or pulp mixtures as illustrated by the yarn variations shown in the sample in Figure 3. The treatment of the stock, in which the fiber contains a variation of staple, as in this instance, would be similar to that used in preparing extracts. Extracts are made from tailors' clippings or rags of the junk shop composed of both an animal and a vegetable fiber. A single piece of this cloth may be made up of as many kinds of yarn as shown in the illustration.

The shoddy threads in the piece may be composed of a blend of both animal and vegetable fiber. three-ply threads used to produce a rib effect in the pattern may be composed of cotton, linen and a pulp strand. Pulp threads are those produced from wood or other pulp and drawn out into a filament for use in conjunction with one or more



of particles of the stock which has textile threads in two or three-ply not been properly opened and dis- twists as in the sample. entangled. Such specks will not It may be desired to salvage the cause annoyance to the wearer of animal fiber out of a batch of some the goods by scratching as they will hundreds or thousands of pounds of be soft. But the lumpy condition rag stock of this class. injures the appearance of the text—

The carbonizing process conduct—

The carboni ure, particularly if the lumps are ed with any of the above mentioned different in color from the ground. (Continued on Page 28)

### Spinning Frame Improvements

By a Representative of the Saco-Lowell Shops.

manufacturer had to study in the new modern frame, driven by an manufacture of textile machinery to individual motor and a chain drive. have their frames able to stand the that is, the study of spinning rings. frame can easily produce 10 or 12 All manufacturers recognize that per cent more than an old obsolete the limit of the speed in spinning is spinning frame. This has been made the ring and its traveler, and the possible by certain theories that strain on the yarn, due to the bal- have been advanced in spinning, and looning in spinning. The improve- have later proven to be practical, ments in the spindle and the roll and by the fact that the machinery have been accompanied by improve-builders have kept their spinning ments in the ring, and now the improved, so as to take advantage strain of the yarn is practically the of these advanced ideas of spinonly limit to speed. A smooth fin- ning.
ished, perfectly round ring, made To show you what a 12 per cent
up of a durable quality of material, increased production would mean in has lessened the difficulty in spinning at the points of the ring and the traveler.

Ring rails are now so balanced and aligned with the spindle that the rings can maintain at all times their concentricity at this point: We might also add that the new type metallic thread board and Pal- on 23s yarn is approximately 100,000 mer guide, which is an improvement used on the wooden thread board have made it possible to keep the thread guide absolutely in line with the spindle.

ery builders to better running, high speed spinning.

hank clock on their spinning frames spinning \$93,500 annually.

With an investment of the old clocks, which register only in full hanks. This instead of the old clocks, which reg-ister only in full hanks. This is this \$93,000 would pay all interest particularly true where a mill is charges, and in less than five years running night and day; the day man by the additional profit. claims more hanks and the night man claims more hanks.

improvements on frame, and many mill men have entirely different ideas on this subject. They all realize that to do away with certain belting expense, which with certain beltin gexpense, which is always with them, and at the equipment continuously, and let this same time they have a lighter and improved equipment do away with a more pleasant room in which their lot of high priced labor. This same employees work.

We all know that light is a great spinning frame, a low speed motor of 80 cars, and in this way they re-will give satisfactory results, but duced the amount of labor to the we know that a high speed motor volume of their business. Every and a small pulley will not compare (Continued on Page 27)

There is another point which the with the results obtained by the

It is for the above reasons that speeds which the mills wish to run; we say that a modern spinning

50,000-spindle mill making 23s rn, we will take some figures yarn, which in normal times we believe will not be far wrong. Fifty thousand spindles installed in a mill will represent an investment of about \$350,000. The production in a 60hour week of these 50,000 spindles pounds. Twelve per cent increase over this would be 12,000 pounds. If you were making 4 cents per pound clear profit, your profit, without increase in labor cost, would be All of these improvements are the \$24,000 a year. If your spinning contribution of the textile machin-labor cost was 2 cents per pound, and there was no additional labor, you would add to this \$12,000. If by Another improvement which is any chance, through the use of mod-semetimes overlooked by mills in ern frames, you increase the quality comparing the advantages of the of your yarn so that you could get new frames with the old frames is 1 cent per pound premium over the improved decimal hank clock your former poor quality of yarn, This new type clock clearly indi- you would add \$56,000 to the above cates hanks in tenth of hanks. Its account. The repair cost for mainan automobile speedometer where frames would save you about \$1,500 the number of miles traveled are a year, which would be added to the registered. Many practical mill men above account, thus account know how many arguments

These figures, of course, will not hold in unusually hard times, but We cannot pass over, in speaking you can revise them to suit your spinning own costs, and your own conditions, frames, the individual motor driven and we believe that you will see the spinning frame. All shops are pre- wisdom of replacing your very old pared to furnish either the belt spinning with new modern tape drive or the individual motor driven driven wide gauge, filling wind frames.

The only way that textile machinery builders can keep prices of their machinery as low as today is for them to buy improved equipment continuously, and let this condition exists in cotton mills and every kind of manufacturing today, factor in the quality of work that because of our inflated wages. The a mill produces. You cannot expect railroads made their conditions livrailroads made their conditions livthe best work from a poorly lighted able by spending money on their room. We think that a belt driven grades and buying better and larger spinning frame, with a large pulley, locomotives, so that one engineer say, 12-inch diameter on the motor, and one fireman, instead of pulling a 12-inch to 16-inch pulley on the a train of 20 cars, could pull a train

## COTTON **MACHINERY**

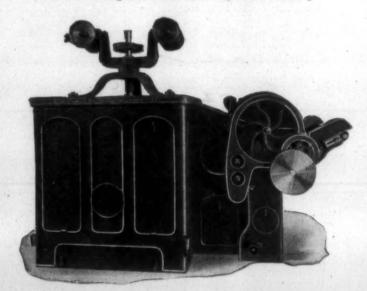
WE BUILD A COMPLETE LINE OF

### Cotton Opening Machinery

ILLUSTRATED BELOW IS OUR

### NEW MODEL CRIGHTON **OPENER**

With Cage Section and Apron Delivery



The superior cleaning qualities of this type of Opener, for working medium and low-grade cottons, have been recognized by many of the leading cotton manufacturers in this country.

In this machine, the fibre is not subjected to the harsh treatment of beating from the Feed Rolls, and a larger percentage of foreign matter is removed from the cotton than by other methods.

Installations can be made with one, two or three Crightons in a line.

We build these machines with Spiral Gear, direct Belt or Vertical Motor Drive when desired.

Write for Descriptive Bulletin and List of Users

### H. & B American Machine Co.

Pawtucket, R. I.

Southern Office 814-816 Atlanta Trust Co. Bldg. Atlanta, Ga.

### Are your mill receptacles L.V.B. Tension Device smooth inside?

It will pay you to look into your receptacle equipment during this slack period

Some mills overlook the importance of smooth receptacles. Rough spots and projections catch and break the delicate fibres of the sliver. Splinters tear hands and clothes of workers.

Diamond Fibre Mill Receptacles are flawlessly smooth—and they stay smooth. Wear does not affect the glossy hardness of the surface. These receptacles cut down maintenance cost.

These receptacles are made of Diamond Fibre-a dense, tough, durable material. It does not crack, splinter, or corrode.

There is a type of Diamond Fibre Mill receptacle made to suit every need in textile mills. You can get doffing trays, mill baskets, trucks, roving cans, boxes, etc., in all standard sizes.

For those whose needs require special sizes, we can build to specifications.

> Write for our new booklet, "Diamond Fibre Receptacles." It will give you full information on this line with specifications.

> We manufacture a large line of Diamond Fibre Textile Specialties, including such items as: spool heads, loom picks, swift braces, trust washers, spindle guards, shuttles, flier discs, lacing combs, etc.



Diamond Fibre Tapered Mill Baskets



Diamond Fibre Steel Clad Truck Diamond Fibre Doffing Car





Diamond Fibre Barrel With Cover

### Diamond State Fibre Co.

Bridgeport, Pennsylvania Branches in Principal Cities Toronto, Canada-London, England

By the L. V. B. Tension Co.

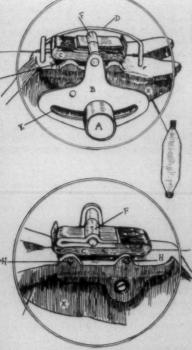
THE advantages of so-called "fillpractical manufacturers.

What cotton mill man has not at some time longed for the advent of a satisfactory spooler tension device, which would enable him to abandon warp wind and adopt the newer and more efficient filling wind method which reduces waste and gives so much greater production and so much better running work?

Machinery makers have outlined



I. It must be compensating. That is, it must exert the same or nearly the same amount of tension, whether the bobbin be empty or full,



whether the spool be empty or full and whether the traverse is at the bottom or top.

2. It must be easily adjustable. That is, in order to accommodate any size of yarn, the adjustment must be simple, uniform and posi-

HE advantages of so-called "fill- 3. It must be self-cleaning. That ing wind" in the process of cot- is, is must not allow the lint to ton manufacturing are known to all accumulate and form slubs on the

> 4. It must be self-threading. That is, after the operative ties the knot, the thread should instantly work its way into its proper position and remain there.

5. It must be sensitive. That is, it must be yielding and adaptable, resembling the touch of the human

Because it fully meets every one of these requirements both in the testing laboratory and in practical everyday work in the cotton mill, the L. V. B. spooler tension device is presented to the cotton manufacturing industry as a tension device which will make it possible for any cotton mill, regardless of the class of work it does, to adopt the filling wind method and reap the advan-tages that are universally admitted to go. with it.

#### Even Tension.

The L. V. B. device maintains an absolutely even steady tension no matter how fast or slow the yarn runs, whether the spool or the bob-bin be empty or full and regardless of the position of the traverse.

Instantly Adjustable.

The L. V. B. tension is instantly adjusted merely by moving the m weight to any given position, and can be used on any size yarn from the coarsest to the finest, not excluding numbers above 150s. tension is positive and absolutely uniform at all times.

#### Self-Cleaning.

The L. V. B. tension is self-cleaning, being cut out under the tension arm with the exception of two cyl-indrical pins over which the yarn passes. Lint and dust have no place to collect, but fall directly onto the

#### Self-Threading.

The L. V. B. tension is self-threading. A wire guard serves to guide the yarn into position after the end is pieced up. The natural motion of the yarn keeps it in proper position afterward. The L. V. B. is the most sensitive tension on the market. The pres-

sure is applied through a weighted spring. It has plenty of give to meet all irregularities in the yarn without bouncing or binding, and the fact that there are two pressure points makes it impossible for the tension to relax even for the most infinitesimal fraction of a second. It s the most perfect substitute for the human finger that has yet been

Finally, the L. V. B. tension actually works just as well as it looks. It has been tried out for a period of two years in actual mill practice in and about New Bedford, Mass. It has been used on all classes of work and has met the most exacting conditions, and is highly in favor both with the workers and with the mill executives who have tried it.

The pictures show two views of the device, from opposite sides, the order to show the mechanism.

shoe which swings freely on a hori- 9,832 pounds; ciba violet B, 9,259 zontal pin F while the other prong pounds; alizarine blue black, 7,951 rests upon two horizontal bars H H. pounds; indanthrene golden orange The yarn passes through the Y- R, 7,422 pounds, and indanthrene shaped jaws of the device, over the orange golden G, 6,990 pounds. top of the two horizontal bars H-H but under the lower prong of the steel spring C.

Plate B is rigidly fastened to the pinion F and carries the weight A which is adjustable at any point in the slot E merely by a twist of the

fingers.

is a heavy steel wire guide frame of the device but serves to but smaller than in April.

control ballooning of the yarn.

G shows where the metal is cut Many Mills Runni

away in a rectangular hole approximately the size of one prong of the steel spring shoe C. This hole is open at the bottom and is spanned by the two horizontal bars H-H over which the yarn passes. Dust over which the yarn passes. Dust or lint cannot collect under the steel spring shoe, therefore, because it will fall through onto the floor.

The device is practically indestructible, but is so constructed that the steel spring tension shoe, which is the only part upon which any wear might come; can be replaced at infinitesimal cost.

Successful At Any Speed.

It is simple to attach to any form of cotton mill machinery where a tension is required, and does not fasten to the traverse rail. It will work equally well at any speed with any size bobbin or spool and with any size yarn. In the mills where the L. V. B. tension is already in use it has been found perfectly feasible to run the yarn at speeds as high as 1200 to 1500 R. P. M. Every mill man knows what this means from a production standpoint.

The L. V. B. tension will pay for itself in less than two years out of the saving in the spooling cost alone. But more important still to the practical cotton manufacturer, will make it possible for every cotagain next week and run 40 hours ton mill to adopt the filling wind per week. Their equipment is 30,-method, with all the advantage that 355 ring spindles and 488 looms. such a change involves in the spinning room.

#### **Dye Imports Decline**

statistics compiled by the Chemical Division of the Department of Com-merce in collaboration with the Chemical Section of the Tariff Compounds valued at \$3,327; Philadel-phia, 1,500 pounds, valued at \$1,680, and Boston, 495 pounds valued at \$519.

June imports at New York were the smallest of any month this year, both in quantity and value, being with 167,245 pounds in Barcelona, June 3.

self-threading guide having been re- May, 174,880 in April, 293,862 in moved from the lower picture in March, 158,874 in February and 288,-743 in January

C is steel spring in the form of The five leading colors imported. One prong is fastened to the last month were trisulphon brown,

Germany Sends 49 Per Cent. Shipments from Germany led in June, as they have every month in forming 49 per cent of the total last month. Switzerland was

second, with 39 per cent, Italy third with 4 per cent, while England's shipments dropped to 2 per cent of the month's total. Holland sent 3 which leads the yarn into place per cent, Belgium and France 1 per beneath the steel spring shoe and cent each and all other countries 1 acts as the self threader, while the per cent. Shipments from Germany metal fin X not only strengthens the in June were larger than in May,

#### Many Mills Running in Columbia

Columbia, S. C .- Glencoe Cotton Mill has been running one-half of their equipment since last January, and will continue to run on this basis until more favorable condiarise, according to T. Wannamaker, president of the mills. They were closed down last Friday and Saturday for the holidays. This plant manufactures twines, yarns

The Hampton group of the Pacific Mills here, closed down last Thursday for the remainder of that week, but they will resume operations tomorrow and will continue their schedule of 55 hours per week.

This group includes the following Capital City, Granby, Olympic and the Richland, which have 202,048 spindles, 347 cards and 4,800 looms. All these plants are running the same number of hours.

It is understood that the new plant of this organization, near Greenville, will be started Monday.

The plant of the Mt. Vernon-Woodbury Mills, Inc., here, known as the Columbia Mills, also closed last Thursday for the remainder of the week, but will start operations

Martel Mills, Inc., were shut down all last week in accordance with orders from New York. Up to that time they were running four days per week. It has been stated that Washington, D. C.—Coal tar dyes run four days. F. T. Parker Comimported through New York in June pany, manufacturing cotton wool totalled 147,380 pounds with an in- and hair press cloths, and 1 S to voice value of \$151,331, according to 6 S yarns, are running full time.

#### Spanish Textile Conditions.

Conditions in the Spanish textile mission. In addition, there were industry have remained unchanged imported through Providence 3,644 since the beginning of the year. There is general complaint of dull-ness and lack of orders but no change is in prospect for the near future so long as the purchasing power of the people is unchanged and cotton prices continue at their present levels.—Consul F. A. Henry,

### "BRILLIANT OIL AX"

FOR LOOMS



Any accidental oil stains are entirely removed in the kier

A body suitable for each textile lubrication need

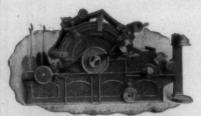
### BORNE, SCRYMSER CO.

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Woonsocket Rhode Island, U. S. A. Picker and Card Room Machinery

Veeders
Vertical Openers
Vertical Opener

Fales & Jenks Machine Company Pawtucket, Rhode Island, U. S. A. Ring Spinning and Twisting Machinery

Spinning Frames for Co. Twisters for Cotton, Yed, Silk, Jute, Flax and No.



Easton & Burnham Machine Company
Pawtucket, Rhode Island, U. S. A.

Warping and Winding Machinery

Doublers
Banding Machines
Card Grinders
Spindles for
Cotton and Silk

H. Windle, Northern and Export Agent J. H. Mayes, Southern Agent

Pawtucket, R. I. Charlotte, N. C.

### A SUPRISED VISITOR

One of our recent visitors expressed considerable surone of our recent visitors expressed considerable sur-prise at our equipment and, to use his own words. remarked that "It seems almost unreasonable to be obliged to use laboratory methods in the manufacture of ring travelers." But we have found it has been a splendid investment for us in eliminating rule of thumb methods and a good thing for our customers, as it necessarily assures them of a better product.

#### VICTOR RING TRAVELER COMPANY

20 Mathewson St.

Providence, R. I.

### Moreland Size

"The Warps Best Friend"

Moreland Sizing Company Spartanburg, S. C.

J. T. MORELAND, President

### JOHN D. SPINKS, C. E.

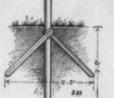
#### CONSULTING ENGINEER

Sewerage—Sewage Disposal—Water Supply—Streets VILLAGE PLANNING

Winston-Salem, N. C.



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They stard straight and firm for years-in swamp or dry ground. In fact, many A. P. Fences installed 20 years ago are still in perfect alignment.

Phone or write our nearest representative for complete information on the many paying features of Anchor Post Fences, including the above.

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### Filling Wind Spooling

By the Foster Machine Co., Westfield, Mass.

THE economy in spinning, spooling

used, has been exhaustively tested neers generally.

filling wind are:

bobbin is comparatively light. There sometimes necessary in warp wind ment spinning.

that are interested in changing their gardless of the count and quality of

In spooling from filling wind spinand succeeding operations in the ning bobbins using the Foster spoolmill, when filling wind spinning is er guide, the spindle speed of the spooler is restricted only by the and is now conceded by practical construction of the spooler with re-cotton manufacturers and mill engi- gard to wear and tear, as the yarn will draw from the filling wind bob-Briefly some of the economies of bin equally well whether the spooler speed is high or low.

Higher front roll speed and spin- It is customary to run filling wind ning spindle production. The drag spoolers equipped with Foster of yarn winding on the spinning spooler tensions 100 to 200 per cent It is customary to run filling wind faster than it is possible to run warp is no necessity of adding twist to wind spoolers. The economy here the yarn to favor spooling, as is is in floor space and spooler invest-

The finest and softest yarn can be The Foster No. 32 spooler tension- spooled at high speed as the draw guide has been designed for mills from the bobbin is always light re-



Foster Spooler Tension Guide.

spinning from warp wind to filling yarn. Softer spinning made possible economy of the filling wind method.

Its function is to build a spool of yarn of even density throughout, making the spool soft or as hard as desired; containing the highest possible yardage and to be free from all kinks.

on the yarn may be changed quickly to suit different yarn conditions and when determined will not vary and cannot be put out of adjustment or tampered with.

wind, or who now have filling wind by using filling wind prevents kinks spinning, but on account of spooling and in the case of necessarily hard difficulties or spooling costs, have twisted yarn, the Foster No. 32 been unable to develop the full guide will remove kinks that come from the spinning bobbin.

Foster spooler guides produce spools of yarn of even density throughout, having no hard or soft places. The tension may be changed ble yardage and to be free from to make the spool hard or soft as l kinks. required for different qualities of The important feature of tension yarn and this condition will not vary unless the attachment is adjusted to give more or less tension.

The work of the operative in piecings ends and the time spent in doing this is most important as it

Foster spooler guides have been more or less tension. designed with the idea of eliminat-

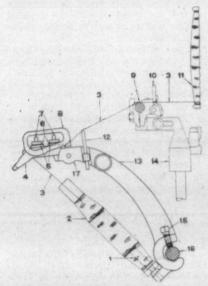
ing all unnecessary movements in piecing up. This feature reduces piecing up. This feature reduces The outline drawing shows the spindle stoppage and lowers the cost position of Model 32 spooler tension of filling wind spooling.

The Foster spooler tension guide No. 32 is used in cotton weaving mills and spinning mills making warp varns.

It will fit any make of spooler and will allow the use of any make of slub-catcher. The attachment combines a pin for holding the spinning bobbin, and a tension

The chief function of this attachment is to keep the yarn taut while being transferred from the filling-wind bobbin to the speed and to prevent kinks winding on the spool.

The tension feature consists of changed to suit fine or rotating disc gravity weights which



rest on the yarn and are revolved receive and absorb vibration and slowly by the movement of yarn, prevent sudden release or sudden the tension is applied by gravity and the inertia or dead weight on the The bobbin pins (1) are inter-yarn is overcome by the use of a changeable for any size bobbin. The yielding substance between the contact disc and tension weights, which also serves as a vibration arrester. Flexibility is thus provided without tension feature of this attachment is in any degree changing the positive similar to that of No. 33 design. tension feature. The tension is unchanging until more or less weight ative by an easy natural motion is applied which may be done passes the varn through the ten-

The one supreme vital test of a spooler tension in cotton weaving thus held taut preventing the formills is in handling hard twisted kinky yarn. If kinks get by, filling wind economy is greatly restricted bin holder.

The one supreme vital test of a The end coming from the bobbin is spooler tension in cotton weaving thus held taut preventing the formation of kinks while piecing up.

13. Support for tension and held in these mills. The Foster No. 32 spooler guide has become the part through the tension in the semilar through the tension in spooler tension in cotton weaving thus held taut preventing the formation of kinks while piecing up. in these mills. The Foster No. 32 spooler guide has been designed to eliminate kinks. It removes any kink that comes from the fillingwind bobbin, or that might form in the ballooning yarn and assures a spool of yarn free from this defect.

A distinctive feature of the No. 32 tension is an arrangement to equal- 11,000 spinning spindles; 310 looms. ize the natural difference in tension between extremes of traverse. secures evenness in density of the yarn wound on the spool, whether the tension is heavy or light. The tension may be changed to make the spool hard or soft as required for different qualities of yarn, and this condition will not vary until the

directly affects the cost of spooling, attachment is readjusted to give

#### Technical Description.

on the spooler.

The yarn (3) coming from filling wound spinning bobbin (2) passes through a forked opening (4), under the first and second tensions (5-6-7). and guard (8), then over the traverse equalizing bar (12) and the spooler guide rod (9) through the slub-catcher guide (10) to the spool

The tension is threaded by one movement of the operative's hand carrying the end of yarn from the fork (4) to the spool (11); the guard

(8) guiding yarn under the tension.

The tension weights (7) may be counts, by loosening cap screw that fastens guard (8) to tension base (17) and swinging guard up.

The tension equalizing bar (12) is adjustable up or down for different lengths of traverse. As the traverse approaches the bottom of the spool (11) and the contact of the yarn on guide rod decreases, the contact of yarn on the equalizing bar increases proportionally. The equalizing bar thus compensates for the natural variation in tension, caused by the up and down motion of the guide

The contact part of the tensions consist of concave, cupped washers (5) resting on the yarn path in the center of a narrow tension base. The yarn passing under washer is engaged first by one and then the other of its rounded edges; the concave design making two contact points on each washer. The func-tion of the resilient washer (6) which is interposed between the contact and weight washers is to application of pressure to the yarn.

position of the bobbin pin being very accessible, allows for quick replacing of run out bobbins. The

In "piecing up" an end the oper-

16. Spindle rod.

#### Autauga Cotton Mills. Prattville, Ala.

	The second secon	
2 2	W. M. Mashine	Supt.
3	Luther Atherton	Carder
	Dave Dennis	Spinner
2	D. F. Page	Weaver
3	J. C. Walters	lloth Room
3	E. W. Cargall	Dyer
9	Anton McCrary Master	r Mechanic

## Southern Railway System

### Announces

Greatly Reduced Round Trip Fares for Summer Season, 1924

#### **Summer Excursion Fares**

to Mountain and Seashore Resorts on sale daily May 15-Sept. 30. Final limit Oct. 31.

### **Sunday Excursion Fares**

From Salisbury, Winston-Salem, Greensboro, Goldsboro, Danville and intermediate stations to Morehead City and Wilmington lle Beach). Tickets on sale Saturday (Wrightsville Beach). night and Sunday, limit Sunday night, season May 31-August 30, 1924.

#### Week-End Fares

To Western North Carolina Mountain Resorts and Seashore resorts of Eastern North Carolina and Virginia.

Tickets on sale Friday and Saturday. Limit following Tuesday. Season May 16 to August 30,

### Special Excursion Fares

to Atlantic City and Niagara Falls on special dates during June, July and August.

We Recommend the Beautiful Mountains of Western North Carolina **Out Door Sports** Recreation Restful

Wonderful Boys' and Girls' Camps are Located in Western North Carolina Mountains Round Trip Fares for Special Occasions Descriptive Literature Furnished on Application For further detailed information call on any Southern Railway Ticket Agent

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### R. H. GRAHAM

Division Passenger Agent Charlotte, N. C.

# EXTILE BULLET

Published Every Thursday by CLARK PUBLISHING COMPANY Offices: 39-41 S. Church St., Charlotte, N. C.

#### THURSDAY, JULY 10, 1924

DAVID CLARK D. H. HILL, JR. JUNIUS M. SMITH Managing Editor
Associate Editor
Business Manager

SUBSCRIPTION

One year, payable in advance.... Other Countries in Postal Union Single Copies

Contributions on subjects pertaining to cotton, its manufacture and distribution, are requested. Contributed articles do not necessarily reflect the opinion of the publishers. Items pertaining to new mills, extensions, etc., are solicited.

#### ADVERTISING

Advertising rates furnished upon application.

Address all communications and make all drafts, checks and money orders payable to Clark Publishing Company, Charlotte, N. C.

#### Filling Wind on Warp

WE saw a farmer driving to town behind an old gray horse while other farmers flashed by in Fords and other automobiles.

He was traveling in the same manner that farmers traveled before automobiles were invented and was therefore far behind the times.

There are mills still running today with warp wind on warp spinning and they are in exactly the same relative position as farmer plodding along behind his old gray

Five years ago it was not advan- law is strictly enforced. tageous to spin warp with a filling
wind because it was impracticable orphan children or children of widto spool from filling wind.

wind have been invented and it is age now easier and cheaper to spool wind.

The farmer with the gray horse used. will get to town some time and probably get back home safely but he is inefficient and will lose much time.

The mill now spinning warp with warp wind will produce yarn but if they would leave their "old gray horse" and install the filling wind on warp they could make better yarn and more yarn and do so with less cost.

When the spinning runs bad the wise spinner can easily improve the filling side by putting in a few teeth of twist and although the filling frames will still have far less twist than the warp frames they will be running better.

What better evidence of the advantage of the filling wind on warp could be given?

In our "Better Equipment Cam-Warp" and describing some of the tension devices.

Unless you are content to jog along on an "old gray horse" it will pay to study this question.

#### A Letter of Protest

Charlotte, N. C. July 8, 1924.

Editor Washington Post, Washington, D. C.

'Child Labor in Georgia" was very unfair and was evidently based upon rroneous information.

The State of Georgia prohibits the employment of children—under 14 ears of age in factories and their

owed mothers entirely dependent always greater than the ultimate upon them may get special permits yield and there is little chance of a Since then a number of tension upon them may get special permits devices for spooling from filling to work after becoming 12 years of

During 1923 only 127 such permits from filling wind than from warp were issued in Georgia and quite a number of the permits were never

> The Cotton Manufacturers' Asscciation of Georgia, by unanimous vote, requested the 1923 Georgia Legislature to abolish the special ermits above mentioned, but the Legislature refused to do so.

> Should the Labor Amendment be adopted it would result in less than 127 children being removed from the Georgia mills and the Cotton Manufacturers of Georgia than a year ago asked their Legislature to remove them.

The Cotton Manufacturers Georgia are not employing child the labor and do not desire to do so, but the people of Georgia objected to yielding police powers, reserved by them when the Union was formed.

They can see no good reason for in factories:

Governor Lowden, of Illinois, said, alert to increase its powers," and the supply of cotton.

truth is that the real force behind proposed labor amendment is the desire of a Bureau in Washington to secure patronage and appropriations.

The enactment of the Federal less than 200 children from South- to hold this year's crop. ern mills for the very potent reason child labor does not exist in Southern factories.

The greatest campaign of misrepresentation ever conducted in this country has made the people and even the newspapers believe that children of tender age are slaving out their lives in factories when such is not the case.

Georgia registered a protest against the transfer of their Re-served States Powers to a Washprotest ington Bureau and it will be impossible for you or any other impartial investigator to show that the cotton mills or factories of Georgia would be otherwise damaged by the proposed Labor Amendment.

It is not fair to impune the motives of the Georgia Legislature unless you can show that cotton mills and other industries would benefit in a pecuniary way by the defeat of the proposed amendment.

DAVID CLARK, Editor, Southern Textile Bulletin.

#### No Time to Get Bearish

Your editorial of July 5th entitled WE wish to caution the cotton mills of the South against getting too bearish upon cotton at this time

> The July 2nd report showed an indicated crop of 12,100,000 bales. and that may be taken as the maximum possibilities of this season.

> The June 25th indication coming before the boll weevil damage is 12,000,000-bale crop.

> After the long period of curtail-ment there will undoubtedly be a demand for cotton goods that will cause a large consumption of cotton consumption of more than 12,000,000 bales of American cotton can be confidently expected.

> The cotton plant in many sections of the South looks good but is sappy and is very late, and is therefore liable to rapid deterioration from both hot weather and the boll wee-

During the past ten days our editor had occasion to go to Morehead City, on the coast of North Had they done so we would Carolina. He went one way and been "among those present." came back another and drove through 600 miles of cotton country.

Very few blooms were seen and in eastern part of the State the fields are full of grass.

Judging by our observations we would say that a 750,000-bale crop would be the maximum possible for North Carolina

Washington to supervise their probability that Texas wll make as

much cotton as last year.
We do not believe that it is possi-

Should a 12,000,000-bale crop be the result it might result in a temporary decline, but the decline would last only a short time, because the farmers of the South will not sell much cotton below 25 cents Labor Amendment would remove and they are in a splendid position

#### One and One

THE Arkansas Legislature, by a vote of 45 to 40 in the Senate and 15 to 13 in the House, has rati-

fied the Federal Labor Amendment. The Georgia Legislature, by a vote of 173 to 3 in the House and 34 to 0 in the Senate has refused to ratify.

The Kansas Legislature has under their State Constitution submitted the question to a vote of the people. The vote therefore stands 1 and 1.

The advocates of the Labor Amendment must obtain 37 States, whereas if 13 States refuse to ratify it will be defeated and the several States will continue to handle their own affairs.

The refusal of the Georgia Legislature to ratify the amendment has been the signal for a widespread newspaper attack upon Georgia which all manner of false statements were made.

Georgia is pictured as employing little children of tender age and defeating the Labor Amendment in order to continue such employment.

During this entire campaign we expect a continual falsehoods and misrepresentations.

### The Absent Enemy

IN the "American Child," the publication of the National Child Labor Committee and under the above title, we note the following in reference to their recent conference in Washington:

"The National Child Labor Committee had hoped that some of those who are arraying themselves in opposition to the Child Labor Amendment would be present at the conference to expression to their views and to engage in debate with the amendment's backers - but if any such were there they did not reveal themselves.

This statement is typical of the National Child Labor Committee.

They did not hope for the pres ence of an opponent nor did they invite any to come

Had they done so we would have

#### English Piece Goods Exports.

The export of piece goods from England amounted to 1,877,000,000 yards in the first five months of the year as compared with 1.806,000,000 square yards for the same period of last year. Slowly exports of cot-A Texas banker and business man ton goods increases year by year. paign" this week we are describing turning out an efficient State labor who has interests in various parts Countries contributing to the inthe advantages of "Filling Wind on department and allowing a Bureau of Texas tells us that there is little crease are India, Germany, Switzerland, Greece and Turkel. Particularly auspicious is the improvement in the Indian trade the all-"Bureauracy in Washington is ever ble to raise this year an adequate important market for Lancashire

### **Personal News**

C. H. Cole, president of the Micholas and Opp Mills, Opp, Ala., paid us a visit this week.

L. W. Griggs, of Mobile, Ala., has become overseer carding at the Aponaug Mills, Koscuisko, Miss.

M. T. Petty, formerly of States-ville, N. C., but more recently of LaFayette, Ala., has accepted a po-sition with the Williamson Mills, Charleston, S. C.

Friends of T. J. McNeely, popular superintendent of the Altavista Cotton Mills, Altavista, Va., who has been a confirmed bachelor for some years, will be interested to know he was recently married Miss Sallie Davis, of Lynchburg, Va.

J. T. Davis has resigned as assistant superintendent of the Phenix Mills, Kings Mountain, N. C., to become overseer weaving, warping and slashing at the Gambrill-Melville Mills No. 1, and production manager of the Gambrill-Melville Mills No. 2, Kings Mountain, N. C.

#### S. B. Tanner Dead

S. B. Tanner, one of the leading mill men of the South and a pioneer cotton manufacturer of North Car-olina, died at the home of his daughter, Mrs. R. H. Crawford, in Rutherfordton, N. C., last Thursday morning. Mr. Tanner, who was 72 years old, had been in declining health for some time. Funeral services were conducted Friday morning from the Tryon Street Methodist Church, Charlotte. Mr. Tanner made his home in Charlotte for many years, but since the death of his wife several years ago had been

Mr. Tanner was born in Spartanburg County, S. C. After a brief business career in that State, he moved to North Carolina and built the Henrietta Mills at Henrietta and Caroleen. For many years he was actively in charge of these mills, which were very successfully operated under his management. possibilities of export trade to the East markets and his mills built up a tremendous business there.



C. DWELLE, CHARLOTTE, N. C.

President of the Cotton Manufacturers' Association of North Carolina.

Besides the Henrietta Mills, Mr. Tanner was connected with a num-ber of other important mill developments. He and his son, Kenneth Tanner, built the mill town of Spindale, where they established the Spindale Mills, Stonecutter Mills, Spencer Mills and a number of smaller plants, including the Horn Mills, Sunlight Mills Company and the Spinners Processing Company. At the time of his death Mr. Tanner was also president of the Cleghorn Mills, Rutherfordton, and the Green River Manufacturing Company, Tux-

For many years Mr. Tanner was actively connected with the work of making his home in Rutherfordton, the American Cotton Manufacturers' Association and served as its president in 1917. As a mill builder and executive, Mr. Tanner was recognized as one of the ablest men in the South, and he will be remembered for the contribution he made to textile development in North Carolina.

Mr. Tanner is survived by two Tanner was one of the first South- sons, K. S. Tanner, of Rutherford-ern mill men to appreciate the ton, and S. B. Tanner, Jr., of Charlotte, and one daughter, Mrs. R. H. Crawford, of Rutherfordton, one brother, A. S. Tanner, of Rutherfordton, and five sisters.

### For Sale

48-40" Modified "D" Draper Looms. Latest model, used less than 3 years. Equipped with % H. P. individual motors.

250-32" "E" Model Draper Looms. Batteries for 28 8" Bobbins. Roper let-off motions. Auxiliary shafts for 3 and 4-harness

An unusual bargain for immediate sale.

SOUTHERN TEXTILE MACHINERY COMPANY

Greenville, S. C.

# **Bobbins** and Spools

## True-running Warp Bobbins a Specialty

The Dana S. Courtney Co. Chicopee, Mass.

A. B. CARTER, Southern Agt, Gastonia, N. C.

### Improved Loom Harness

Mill after mill on print cloths, sheetings, drills, colored goods, denims, as well as on all classes of fancy weaves in cotton, silk and worsted goods, is equipping looms with our "Duplex" flat steel harness.

#### YES? WHY?

"Duplex" lasts twelve times as long as twine harness, can be changed more quickly from one cloth to another, and is more satisfactory in every way than any other loom harness known.

Note: Our loom harness is shipped out completely assembled and ready for drawing your warps in plain or fancy weaves, or heddles can be assembled by you on the frames at your mill.

GREENVILLE

"Duplex" Loon Harness—complete Frames and Heddles fully

Selvage Harness Leno Doups Harness Frames Jacquard Heddles PHILADELPHIA

PROVIDENCE

SOUTHERN PLANT

Greenville, S. C.

HAMPTON SMITH Southern Manager

Nickel-Plated Plain Finish Improved Loom Reeds Leno Reeds Lease Reeds Combs

### MILL NEWS ITEMS OF INTEREST

Newberry, S. C .- The Newberry nual dividend of 3 per cent.

Rock Hill, S. C .- The Aragon Mills per cent on the cotton stock and 1 spreads. per cent on the preferred.

Landis, N. C .- The Linn Mills have begun construction of an addition preparatory to, installing additional carding machinery.

Norwood, N. C .- The Norwood Manufacturing Company is installing some additional card room equip-

Anderson, S. C.—The Equinox Mills, which have been curtailing for some time, resumed full time operations this week.

Newberry, S. C .- The Mollohon Mills have paid a semi-annual dividend of '3 per cent.

Newberry, S. C .- The Oakland Mills have paid a semi-annual divi- for the initial experience. dend of 3 per cent.

Anderson, S. C .- The Riverside plant of the Riverside and Toxaway Mills, which was badly damaged by a tornado in April, is expected to be ready for operations again by the first of September.

Wadesboro, N. C.—The new Wade Manufacturing Company is practi-cally complete and will be put into operation next week. The mill, which will manufacture flannels, is one of the best equipped in the South. I. B. Covington is general

Whitehall, Ga .- The White interests, represented by James White, Hugh White and Robert P. White, will erect a new weave shed here and install 110 looms for the manufacture of crinkle bedspreads. The plant will include bleachery and dye works and will cost about \$250,000.

Gibsonville, N. C .- Contract for the erection of a weave shed for the Mineola Manufacturing Company, of Gibsonville, N. C., has been let to W. M. Welch, Inc., of Greenville. The project will represent a cost of approximately \$105,000.

The spin in the near future and will be rushed to completion. Plans for the building were drawn in the office of J. E. Sirrine & Co., of Greenville, S. C.

Greenville, S. C .- Machinery is arriving for the Southern Weaving Company, which was formed here some time ago to manufacture cotton specialties. It is expected that partial operations will be begun early in August. Twenty-two looms will be installed to begin with, with carding and spinning machinery. D. Murdock is president and J. W. Burnett, treasurer.

Lincolnton, N. C .- The new Rhodes-

High Point, N. C .- A new hosiery West avenue, Baltimore, Md.

Lyman, S. C .- The first carload lot was quite an event at Lyman. The

Cotton Mills have paid a semi-an- Rhyne Cotton Mill began operating Prichard Cotton Mills, which is idle structed a similar piece of work for the first of this week and will be at this time, is being offered for running at full capacity in another sale by the owner, B. H. Pake. It running at full capacity in another sale by the owner, B. H. Pake. It week or two. The mill will make has 56 looms for the manufacture have paid a quarterly dividend of 2 yarns and also sheets and bed- of colored napped goods and dam-

> High Point, N. C.—A new hosiery Gaffney, S. C.—The plant of the mill company, known as the Earle-Dempsey Hosiery Company, has ed by fire last Saturday morning. been incorporated here with a capi-According to G. G. Byers, president tal stock of \$100,000 by T. B. Earle, of the organization, the loss was High Point, and A. F. Dempsey, 609 more than \$60,000, and the insurance on the stock is about \$30,000.

> LaGrange, Ga.-Arthur D. Bradof piece goods finished in the new field, civil engineer and textile con-bleachery of the Pacific Mills was tractor, of this city, has been shipped to Chicago last week. The awarded the contract by Lockwood, shipment comprised about 100,000 Greene & Co., Atlanta, for construc-yards of bleached goods. Getting tion of the water works and sewer-the first carload packed and rolling age system to be installed at the was quite an event at Lyman. The American Thread Company's new goods were packed in cases and plant at Dalton, Ga. This contract placed in the car within the space will aggregate an expenditure of two hours considered good time. of two hours, considered good time \$35,000 and the work is to be pushed to completion as rapidly as possible.

Mobile, Ala.—The plant of the Mr. Bradfield installed and conthe New England-Southern Mills, at Hogansville, Ga., last year.

> Tuscaloosa, Ala.—The building of the Kyle Hosiery Mills has been completed and practically all machinery installed. Operations will probably be started this week. The plant has 110 knitting machines, 24 loopers and two sewing machines, electrically operated. R. C. Davis is president and W. C. Kyle, treasurer.

> Browling Green, S. C .--The Bowling Green Spinning Mill has not been closed indefinitely, as reported through error last week. This mill has run full time through the textile depression, having lost only one week's operations, and was closed then only to give the operatives a vacation.

> Augusta, Ga.-Local mill executives are preparing for a shutdown for four to eight weeks, evidently, as those mills here that have stopped cut loose their entire organization with the exception of a few members of their office force and executives. In this city approximately 483,240 spindles are stopped, and a capital of \$3,100,000 is tied up, or a condition which never before has existed since the plants were organized. With curtailment re-ported from all sides this week, those plants which are still running seem to be looking for refuge, and will probably look to that which was set aside for "the rainy day."

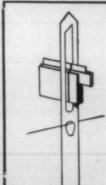
### THE FARISH COMPANY

COMMISSION MERCHANTS



100 WORTH STREET **NEW YORK** 





### K-A Electrical Warp Stop For Looms

is backed by twenty years of experience and steady growth. It is adopted by representative mills weaving cotton, silk, worsted and woolens.

R. I. Warp Stop Equipment Co.

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Town Planning and Mill Village Developments Parks, Real Estate Subdivisions and Cemeteries Resort Hotels and Country Clubs Private Estates and Home Grounds

Complete Topographic Surveys
General Designs, Planting, Grading
and Detail Plans
Supervision of Landscape and
Engineering Construction
Sewer and Water Development

Largest Landscape Organization in the South

#### Gaffney Knitting Mill Burned

Gaffney, S. C .- The plant of the Gaffney Knitting Mills was destroyed by fire last Saturday morning. According to G. G. Byers, president of the organization, the more than \$60,000, and the insurance on the stock is about \$30,000 No theory has been advanced as to the origin of the fire, as the plant had been shut down for several days. The stock of manufactured goods and materials on hand was the largest in the history of the concern, as it was preparing for a large fall trade.

The building was the property of Huggin Bros., who estimated their loss at about \$3,000, with \$2,000 insurance.

When asked as to the future plans of the concern, Mr. Byers stated that nothing would be decided upon until the insurance was adjusted. Up to the time of the present business depression the concern was making money and prospects for a good fall trade were exceedingly bright.

Gaffney Knitting Mills were capitalized at \$25,000. The production and equipment were women's and men's hose, 176 and 200 needles, 54 knitting machines.

### Resume Work

Springfield, Mass.-More than 20,-000 operatives in the Connecticut ments, indicates a decrease of ap-Valley have resumed work in tex- proximately 160,000 dozen pairs of tile and other manufacturing plants after shutdowns varying from two to six weeks. Mills that have resumed operations include: Holyoke, Mass., William Skinner & Sons, silk mills; American Thread Company; American Writing Paper Company; Farr Apalca Company. Springfield, Mass., American Bosch Magneto Company. Northampton, Mass., Belding Silk Mills, Thompsonville, Conn., Bigelow-Hartford Carpet Company, Ludlow, Mass., Ludlow Manufactur-

#### Fort Mill Co. Gives Annual Picnic

Fort Mill, S. C.—The annual picnic of the officers and employees of the Fort Mill Manufacturing Company, which was enjoyed by a large number of townspeople, and visitors from Chester, Rock Hill, Charlotte and Gastonia, was a decided success, and between 1,200 and 1,500 people participated at times throughout the day. The usual contests, with a number of novel ones introduced, furnished pleasurable excitement especially for the younger folks, and there were short talks by the Rev. Long, Capt. Elliott Springs and George Fish.

Three games of baseball were played during the day, the principal event being between the Fort Mill Waxhaw teams late in the afternoon, which resulted in the score of 15 to 0 in favor of the Fort Mill team. At 1 o'clock a barbecue and pasket picnic was served in the grove near the old academy. The day was partly cloudy with cooling breezes, which made it an ideal day for the occasion.

Mr. Fish presented the babies from four to ten years of Fort Mill with a nice sum of money, which was saved through the cold drink stand of the two mills

#### Hosiery Production in July

Washington, D. C .- There was a total of 4,252,341 dozen pairs of hosiery, all classes, manufactured during the month of May, 1924, according to returns received by the Bureau of Census, Department of Commerce, covering 338 establishments representing 430 mills, the

data received from 337 establish- letic and sport, all styles.

of men's full fashioned, 1,588,555 cellations received during month, dozen pairs men's seamless; 619,416 218,758 dozen pairs; unfilled orders dozen pairs women's full fashioned, on hand at end of month, 6,422,928 1,076,120 dozen pairs women's seam-

A comparative summary of pro- pairs children's and infants', all duction for April and May, based on styles; and 20,198 dozen pairs ath-

#### Many Textile Plants in East details of which were made public less; 460,517 dozen pairs boys' and Textile Employment Shows misses', all styles; 420,238 dozen Drop

Washington, D. C .- Employment Orders and stocks, as reported for in manufacturing industries in the proximately 160,000 dozen pairs of the month of May, were as follows: United States decreased 4.2 per cent hosiery, all kinds, manufactured Shipments during month, 4,043,234 in May, payroll totals 5.1 per cent, during May as compared with April, dozen pairs; finished product on and per capita earnings 1 per cent, this year.

The proximately 160,000 dozen pairs of the month of May, were as follows: United States decreased 4.2 per cent, and per capita earnings 1 per cent, hand at end of month, 8,816,968 according to statistics compiled at the period of the month of May, were as follows: United States decreased 4.2 per cent, hosiery, all kinds, manufactured Shipments during month, 4,043,234 in May, payroll totals 5.1 per cent, during May as compared with April, dozen pairs; finished product on and per capita earnings 1 per cent, hand at end of month, 8,816,968 according to statistics compiled at the period of the month of May, were as follows: United States decreased 4.2 per cent, hosiery, all kinds, manufactured Shipments during month, 4,043,234 in May, payroll totals 5.1 per cent, during May as compared with April, dozen pairs; finished product on and per capita earnings 1 per cent, hand at end of month, 8,816,968 according to statistics compiled at the period of the period of the month of May, were as follows: United States decreased 4.2 per cent, hosiery, all kinds, manufactured Shipments during month, 4,043,234 in May, payroll totals 5.1 per cent, during May as compared with April, dozen pairs; finished product on and per capital earnings 1 per cent, hosiery, all kinds, manufactured Shipments and per capital earnings 2 per cent, hosiery, all kinds, manufactured Shipments and per capital earnings 2 per cent, hosiery, all kinds, manufactured Shipments and per capital earnings 2 per cent, hosiery, all kinds, manufactured Shipments and per capital earnings 2 per cent, hosiery, all kinds, manufactured Shipments and per capital earnings 2 per cent, hosiery, all kinds, manufactured Shipments and per capital earnings this year. hand at end of month, 8,816,968 according to statistics compiled at Of the total production during dozen pairs; orders booked during the Department of Labor based on May, there were 67,297 dozen pairs month, 3,376,022 dozen pairs; can-reports from 8,569 establishments, reports from 8,569 establishments, representing 52 industries and employing 2,604,259 workers, whose total earnings during one week inlay were \$68,078,862.

The average decrease in payroll totals in textiles and their products was 6 per cent, the decreases for the various lines being as follows: Cotton goods, 6.7 per cent; hosiery and knit goods, 6.3 per cent; silk goods, 4.3 per cent; woolen and worsted goods, 2.8 per cent; carpets 9.8 per cent; dyeing and finishing textiles, 4.5 per cent; men's clothing, 3.7 per cent; shirts and collars, 5.6 per cent; women's clothing, 18.3 per cent; and millinery and lace goods, 7.9 per cent.

The actual decline in employment during May, 1924, as compared with May, 1923, for the various branches of the textile industry on which statistics are compiled was as follows: Cotton goods, 31.3 per cent; hosiery and knit goods, 13.3 per cent; silk goods, 12.9 per cent; woolen and worsted goods, 21.9 per cent; en and worsted goods, 21.9 per cent; carpets, 15.8 per cent; dyeing and finishing textiles, 16.2 per cent; men's clothing, 29.7 per cent; shirts and collars, 18.2 per cent; women's clothing, 11.5 per cent; and millinery, and lace goods, 8.3 per cent.

### LOOM STRAPPING

Check Straps--Lugs.

folded and stitched, cemented-

Rounded and flat

Harness Straps--BumpersPower Straps-Friction Discs--

Binder Straps-

Hold-ups--

We specialize and know your looms. Ask your jobber.

The Druid Oak Belting Co., Inc. Baltimore—Boston

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MILL WHITES, PAINTS, STAINS, Etc. Write for Prices and Free Samples

#### EMMONS LOOM HARNESS COMPANY

The Largest Manufacturers of Loom Harness and Reeds in America

Loom Harness and Reeds

Slasher and Striking Combs, Warps and Leice Reeds, Beamer and Dresser Hecks, Mending Eyes, Jacquard Heddles

LAWRENCE, MASS.

### Joseph L. Davidson Co.

Established 1889

Designing Card Stamping Repeating FOR ALL TEXTILE FABRICS

2525 N. Second St., Philadelphia, Pa.

Improved Dobby Chain

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**Dobby Cords** 

Rice Dobby Chain Co. Millbury, Mass. Send Us Your Order Today

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must be one that for simplicity with great capacity and economy in maintenance produces uniformly such conditions that may be determined for the different requirements of the work. In the American Moistening Company's method of humidifying, all such requirements are GUARANTEED

Our COMINS SECTIONAL HUMIDIFIERS
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into the room from outside)
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Our CONDITIONING ROOM EQUIPMENT
Our AUTOMATIC HUMIDITY CONTROL (Can be applied to systems already installed)
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Are all STANDARDS OF MODERN TEXTILE MILL EQUIPMENTS

AMERICAN MOISTENING COMPANY

RUSSELL GRINNELL, President

BOSTON, MASS.

FRANK B. COMINS, General Manager SOUTHERN OFFICES, 276 Marietta St., Atlauta, Ga., No. Charlotte, N. C.

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EXPORTERS—MANUFACTURERS—IMPORTERS

of any kind of Preparations for

Brooklyn, N. Y. Cicero, III.

SIZING

SOFTENING

**FINISHING** 

WEIGHTING



for all Textile Purposes

Sizing Preparations, Tallows, Filling Materials, Printing and Stiffening Gums, Rosin Soaps, Dextrines, Soluble Oils, 50%-75% Guaranteed

Hosiery Oil

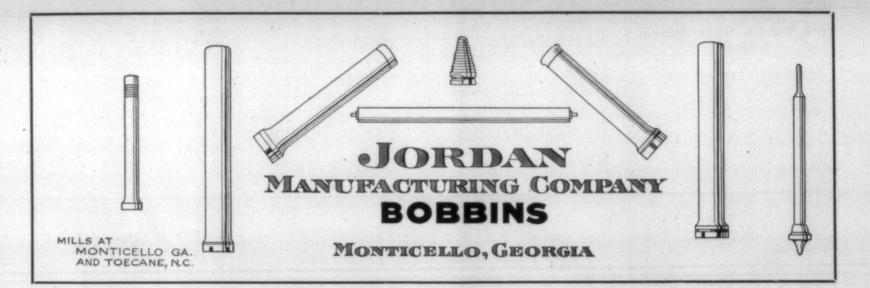
il-Off Oil

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Many years' practical experience of our technical staff enables us to meet all your requirements. Our
Textile Research Laboratories are at your disposal. Your correspondence and trial orders are solicited.

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### SCOTT TESTERS

The Standard of The World For Tests of Fabrics, Yarns, Twines, Etc.

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Manufacturers of Speeders, Skewers, Warp Bobbins, Filling Bobbins, Cap Spinning Bobbins, Northrop Loom Bobbins, Twister Bobbins, Twister Spools, Warper Spools, Comber Rolls, Quills, Underclearer Rolls (plain or covered).

### U S Bobbin & Shuttle Co.

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### SHUTTLES

We make a specialty of Shuttles for all makes of looms, both plain and automatic. Correspondence solicited.



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All Our Products Made in One Up-to-the-Minute Factory Group

"HIGH GRADE"

**Bobbins, Spools and Shuttles** 

Correspondence Solicited

Catalog on Request

#### Improvements in Spinning Frames

(Continued from Page 17)

wise manufacturer is doing the same thing, and the best cotton mills are replacing their old equipment, and a spinner at no increases in wages, with new equipment can easily produce 10 per cent more, and this 10 per cent is a decided advan-tage in both good times and bad

#### How Photography Is Used in Textile Manufacturing

By Harry Rose, Cotton Research Co., published in "Builders."

ity learning how to do it, we began scene of operation of the card. We by photographing about everything succeeded in catching some of the in sight that had any bearing on web on a blackboard and photoon sight that had any bearing on web on a blackboard and photocotton and its manufacture. These graphs of various samples gave us
photographs were carefully filed a good idea of the efficiency of the
away and with the passing of time card in cleaning the cotton.

their usefulness has been demonstrated time and again. We have have been made from time to time
often had occasion to refer to them, at the Cotton Research Company. work. For instance, how many mill as a record of progress in our lines, men remember what the yarn which

6. Unusual Conditions or Attachmen remember what the yarn which 6. Unusual Conditions or Attachtheir mill produced six months or a ments on Machinery. Whenever we year ago looks like? Of course, they discover anything out of the ordiand made mental or written note of a photograph is generally made and its cleanliness, evenness, or fuzzi-filed away for future reference. ness, but how vivid a picture is that Many times we have eccasion to rememory at present? How does the fer back to it, and it is always at present product compare with that hand for this purpose. Then, too, earlier yarn? The mental or writmany manufacturers of new devices and made mental or written note of rily these questions. Such questions bring them to our laboratory for can only be answered satisfactorily testing out. In such cases, photoby comparing the actual samples graphs are generally made to acthemselves, or the next best thing, company reports. by comparing standard photographs of the various samples.

which we have made are more or most efficiently in a certain way. A less familiar to most of the mem-series of photographs of the various bers of the organization, as our resteps in doing this have been made ports on different tests generally for educational purposes. This is contain one or more photographs of one class of photographs which charts, curves, machines, yarn, might be made particularly useful cloth, or what not. Therefore, it is to a mill. Would it not be possible unnecessary to review at length the to educate the operatives as to the

samples of raw cotton preliminary fore the worker, to making a test. Later, these pho-8. Charts and Curves for Records, tographs were filed with the best A vast amount of our work is con-

2. Evenness of Picker Laps. Dur- originals of all sizes and shapes.

"g our tests on the efficiency of 9. Educational. Under this headthe various types of beaters, and ing I include lantern slides. We
comparison of their effects on the have all the necessary equipment lap. This was done in an unique illustrated talks on various topics way. The surface was not photo-connected with cotton manufacturgraphed, but the lap was laid on a ing.

piece of ground glass which was illuminated from below. Thus we got a picture of the arrangement of the fibres by transmitted light. showed clearly the difference in evenness of laps made by the various types of beaters.

3. Evenness of Yarn. I have briefly mentioned previously that photo-graphs of blackboarded samples of yarn are valuable chiefly for purposes of filling and recording. product of a mill can from time to ime be boarded and photographed. Photographs of blackboards are as good as the original boards for observation purposes, and the advan-tages of a photograph over the board itself for filing purposes are too obvious to dwell upon in detail.

4. Cleanliness of Card Web. This WHEN we first began to make sort of photograph can of course photographs and were in real- only be made very close to the

not only to refresh our memory on These were photographed in various some of our early work, but also to stages of construction and operamake comparisons with present tion, and these photographs serve

blackboarded samples of it at the nary or unusual pertaining to the time and looked it over carefully running or operation of a machine, ten note cannot answer satisfacto- or attachments to present machines

y comparing standard photographs 7. Method of Performing Opera-tions. Sometimes it happens that a The various types of photographs given operation can be performed above classification. I will, how-correct and incorrect methods of ever, mention briefly what is em-performing certain operations? A braced in each class of photographs, photograph can certainly teach this 1. Cleanliness of Raw Cotton. We much better than oral or printed have made photographs of small instructions, and is constantly be-

results showing the cleanliness of tained in charts and curves of re-the cotton we started with. This sults. Most of these are photo-was particularly helpful in some of graphed in order to have a ready our earlier cotton tests when we means of sending out copies and made a comparison of the running also for uniformity in filing, as it is qualities of various kinds of cotton. better to file uniform pictures than

cotton staple, we made many pic- for making lantern slides and for tures of the fringe of cotton on the showing them. With our portable feed roll of the pickers and also projection machine we can make photographed sections of a picker and have made trips to mills giving



7-1-2 H. P. Morse Silent Chain driving spinning frames in a southern mill. Driven 1750 R. P. M., driven 1250 R. P. M., centers 8-1-2 inches

### Improves Yarn Quality

Morse Silent Chain Drives transmit 98.6% of the motor horsepower developed with constant and positive speed ratios. Improve the quality of the yarn by eliminating pulsating yarn at the traveler—a common cause of broken yarn when belts with their varying speeds are used. Morse Chains also prevent loss due to fly and dirt from pulleys and belts getting into the work. Cleaner yarn is produced and customers better satisfied.

Let Morse Engineers help you.

MORSE CHAIN COMPANY Ithaca, N. Y.



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Specializes in Textile Corporation Finance. Negotiates purchase and sale of Cotton Mills. Offers conservative investments in Textile preferred stocks to yield from 6 1-2 to 7 1-2 per cent.

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"Warp Dressing Service Improves Weaving"

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### THIS 2-PIECE GEAR CAN BE APPLIED IN THIRTY MINUTES

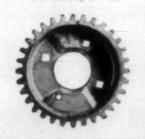
to any loom to replace a bro-ken crank shaft gear. Saves material and time and also in-creases production.

Not a temporary makeshift but a permanent satisfactory repair part.

Write for sample.

### Dan Gear Co.

Caroleen, N. C.



Save in freight by using WILTS

Veneer Packing Cases

They are lighter and stronger, made of perfect 3-ply Veneer Packing Case Shooks. A saving of 20 to 80 pounds in freight on every shipment because of extreme lightness. Stronger than inch boards, burglarproof, waterproof and clean. Write for prices and samples. Convincing prices—Quick service. Wilts Veneer Co., Richmond, Va.



#### Southern Mill Dividends

(Continued from Page 10)

000 common, \$75,000.

cent; \$300,000 common, \$6,000.

quarterly; \$315,000 common, \$9,468.

\$30,000.

ent; 8841,300 preferred, \$29,445.50. mills the process is referred to as a Georgia-Kincaid Mills, 4 per cent; burring operation. \$600,000 common, \$24,000.

Georgia-Kincaid Mills, 31/2

\$170,000 preferred, \$6,800.

\$200,000 common, \$10,000.

per cent; \$600,000 common, \$30,000.

\$600,000 common, \$24,000.

cent, \$500,000 common, \$15,000.

quarterly; \$250,000 common, \$7,500. not been put through the carbon-

Muskogee Mfg. Co., 8 per cent; izing process, \$500,000 common, \$40,000.

preferred, \$7,000.

Perfection Spinning Co., 31/2 per staple of the latter stock.

cent; \$100,000 preferred, \$3,500.

Pinkney Mills, 2 per cent quarterly; \$100,000 preferred, \$2,000

\$225,000

Roswell Mfg. Co., 2 per cent quarterly, \$225,000 preferred, \$4,500.

Sibley Mfg. Co., 11/2 per cent quarterly; \$900,000 common, \$13,500.

Wiscassett Mills, 5 per cent; \$3,-

quarterly; \$250,700 common, \$3,- girl should be a good judge of col-760.50. ors, otherwise she may get the cov-

#### Specking Knitted Fabrics. (Continued from Page 16)

taining animal fiber only. The The writer saw one girl picking weight of the batch will be reduced and scratching away on a speck in

Dallas Mfg. Co., 3 per cent; \$1,- rial is then drained off and put in a Dallas Mfg. Co., 3 per cent; \$1,- hat is then dramed on and put if a 500,000 common, \$45,000. hot air chamber where a temperature of 170 to 180 degrees Fahren-quarterly; \$500,000 common, \$7,500. Efird Mfg. Co., 5 per cent, \$1,500,- 000 common, \$75,000. Elizabeth City Cotton Mills, 2 per the hydrogen and oxygen properties ent; \$300,000 common, \$6,000. from all vegetable matter present. Elm City Cotton Mills, 3 per cent This leaves the carbon properties only. Raw material in which it is Erwin Cotton Mills Co., 1½ per required that all vegetable sub-cent quarterly, \$2,000,000 common, treated. Hence burrs, pieces of Fitzgerald Cotton Mills, 5 per cent; straw and kindred matter which later on would appear in the form of specks in the goods are effectively removed for all time. In many mills the process is referred to as a

After the stock is taken from the cent; \$1,300,000 preferred, \$45,500. drying chamber it must be treated Halifax Cotton Mills, 4 per cent; to remove the carbon which exists in a very concentrated form on the Hannah Picket Mills, 5 per cent; staple. By taking some of the treated material in the hand and Hannah Pickett Mills, 3½ per rubbing it, the carbonized vegetable cent; \$500,000 preferred, \$17,500. matter will crumble and powder and Indian Head Mills of Alabama, 5 fall away leaving the animal fiber intact. The material is run through Locke Cotton Mills, 4 per cent; a burring machine which breaks \$500,000 preferred, \$20,000.

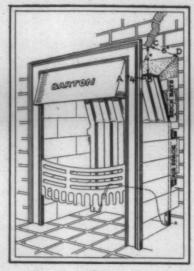
Louisville Cotton Mills, 4 per cent; substance after which it is passed If you like smoky fire places DO through a carding machine alone or through a carding machine alone or Manchester Cotton Mills, 3 per mixed with other fiber. A fiber is obtained which is free of all vege-Marion Mfg. Co., 1 per cent; \$625,- table substance, although it may not possess the same degree of elastic-Mfg. Co., 3 per cent ity and fullness of fiber which has

500,000 common, \$40,000. If the carbonized staple is used Myers Mills, 3½ per cent; \$200,000 in mixes with other grades which have not been carbonized, specking Norwood Mfg. Co., 2 per cent will be required in the finishing quarterly; \$600,000 common, \$12,000. room in order to clear the goods of Patterson Mfg. Co., 21/2 per cent objectional substances which may quarterly; \$420,000 common, \$10,500. have been carried along in the If the speck is of such nature that it cannot be removed without detrimentally affecting the texture, it Riverside & Dan River Cotton possible to color it so that it will Mills, 3 per cent; \$7,500,000 common, not be shown. A specking outfit not be shown. A specking outfit intended for use with colored inks is shown in Figure 4. Colored India drawing inks are more solid in their shades than ordinary writing fluid, although regular specking ink is often made by the dyer of the mill. 600,000 common, \$180,000. It is really a specking dye, but is Unity Cotton Mills, 1½ per cent usually called ink. The specking ering color too dark and injure the goods by its prominence over the ground color. Again she may be (Continued from Page 16)

careless with the point of the inble fiber and leave the batch con- strument used for specking.

to the extent of the proportion of a piece of fine knitted goods with a vegetable fiber it originally con-stiff pointed quill pen such as is tained, but the salvaged portion will shown in the drawing. The nap of be all animal fiber and can be used the goods in proximity to the speck as such. The animal fiber is extracted cover the defect by scratching up a from the vegetable fiber and hence pile. In another case a common the name extracts for the former, steel pen was in use which is about In carbonizing with sulphuric acid as bad in its effect on delicate textthe material for treatment is placed ures in the hands of a careless in a tank in which the bath is made specker. The camel hair brush is with a diluted solution of the acid soft enough and little damage can at 3 degrees B. in strength. The rags be done with it even in careless chemicals will destroy the vegeta- hands. But the camel hair brush or

are allowed to soak ten or twelve The Permanent Way hours, during which time the mass is stirred occasionally. The mateto Make Repairs, is to Use Metal Fire Backs.



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for specking all ranges of specks, period last year. The export move— The toe of wooden specker shown ment shot ahead during the first in the lower part of the drawing part of the season, due to early can be recommended. It is about purchases by European importers. five inches long, little smaller in diameter than an ordinary pencil movement later in the season, but and shaved down to a point.

The specking ink can be placed were almost double those for the readily with this little instrument same month in 1923. and without liability of doing any damage as might be the case in ment during the past season has using a sharp metal point. It is on been due almost entirely to English the principle of the wooden tooth and Continental European demand. pick which will not hurt the teeth, The United Kingdom imported durwhereas the old fashioned quill and ing the 11-month period under re-

From the specking department responding period last year. Gerthe goods pass to the calendering many imported nearly 400,000 bales operation which will be considered more. Slight decreases are shown

#### Report on World's Cotton Supply

Washington, D. C .- Prices of raw cotton have stimulated efforts to "Prices of cotton this season have increase production of the staple in been subject to wide and frequent foreign countries, according survey of world cotton conditions which appears in the current issue of Foreign Crops and Markets, issued by the Bureau of Agricultural Economics of the Department of Agriculture.

Should the present price level continue, the prospects are for a considerable increase in foreign acreage devoted to the crop within the next two or three years, the department asserts, but serious competition with cotton raised in Uganda. the United States is regarded as more remote.

The department has revised its estimated cotton production for the ducing it 200,000 bales, making its ticularly in Uganda and the Sudan, tion last season, that of 1923-1924, by re- 000 acres. Much of this area, parpresent estimate of world produc- will require inviscit. tion last season about 18,900,000 bales of 478 pounds each.

The report gives various details for the more important of the foreign cotton-growing countries.

the department says:

production for minor producing areas continue to come in slowly. The Indian estimate has been slight-country. Present production in Braly revised, otherwise the crop in the zil greatly exceeds that in Argentina, The Indian estimate has been slightmajor producing countries remains the same as reported in our last located in the interior river valleys, summary of April 16. Information where agriculture is most primitive received from other sections indi- and transportation facilities poorcating a somewhat smaller produc- est tion causes us to reduce our estimated world production for 1923-1924 about 200,000 bales.

"It now appears that the world production was about 18,900,000 is within easy distance of railway bales of 478 pounds net.

the corresponding period last year.

"Imports have been considerably less, and re-exports slightly more, "Extensive areas in the provinces so that the total excess of exports of Sind and Punjab, India, are suitover imports for the 11 months' pe- able to cotton production when riod under review are about 800,000 properly irrigated. Because of dense bales in excess of the preceding

period beginning July 1, 1923, were what c 5,668,000 bales, compared with 5,- planted.

any other hair brush is not suitable 031,000 bales of the corresponding

"There was some slack in this for the month of May, 1924, exports

"The increase in the export movemetal tooth picks used to do con-view nearly 300,000 bales more siderable damage to teeth.

American cotton than for the corthe exports to Italy, Spain and Belgium. A few thousand bales more cotton were exported to China but with this exception, demand for American cotton outside of Europe has been somewhat less than the preceding year.
"Prices of cotton this season have

fluctuations, the extreme in some cases differing as much as 15 cents per pound. The relatively high level of prices this season is stimulating considerable effort to increase production in foreign countries.

'A 10 per cent increase over last year's acreage is expected in Egypt. This would mean an area of 1,800,000 acres for the 1924-1925 crop

"In Africa the regions most talked of for increased cotton production are the Anglo-Egyptian Sudan and Uganda. Some place the potential acreage in the Anglo-Egyptian Sudan at 1,000,000 acres, and for Uganda, together with Kenya Coland for ony and Tanganyika, at about 1,250,will require irrigation, and there is some question whether the fountain waters of the Nile will be sufficient without decreasing the supply for Upper and Lower Egypt.

Australia has shown a large inits summary of the cotton situation, crease in cotton production during e department says:
the past few years, but the total is "Estimates of the 1923-1924 cotton still only a few thousand bales."

"In South America, Brazil is the most talked of cotton producing but the potential areas are largely

"In Argentina, the potential area siutable to cotton growing without irrigation has been estimated at some 14,000,000 acres, most of which or river transportation. The inade-"Total exports for the 11 months quate seasonal labor supply, lack of beginning July, 1923, have been gins, high freight rates, and the about 600,000 bales more than for presence of insect pests are all drawbacks to cotton growing in Argentina.

population, food crops compete with cotton, with the price of the latter "Total exports for the 11 months' a large factor in determining to crop the acreage will



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and the second s	1923
Name of Mill	
Pown	
Spinning Spindles	Looms
	Superintendent
,	Carder
	Spinner
	Weaver
	Cloth Room
	Dyer
	Master Mechanic
Recent changes	

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WRITE FOR SAMPLES

#### Number Sevteen

(Continued from Page 41) (Get a size man to tell what kind compound they use.)

In the weave room they have looms are stopped at a time on a weaver they send for the master mechanic, find out if power is off.

In the cloth room they have be stitchers, brushes, folders and press. All cloth is hand inspected.

Looking over the production and cost sheets of these two mills you find the answer. The better equipped mill has 12 per cent better production, 7 per cent less seconds, over 8 per cent lower cost, while paying 12½ per cent higher wages.
Tobe.

#### Why The Textile Business Is Bad

about the effects of high cotton and such appearance of demand for

causes of the depression. It is re- not for the manufacturers' interests, printed from "Builders," published only give them cheap goods to sell. by Lockwood, Greene & Co., and any It is a commercial fact, too, that mill man will find it interesting, when prices are once lowered to a especially the last paragraph.—Edi- fixed standard for some time, it is

cotton factories is no doubt a la- sity may be for doing so. mentable prospect, but it would be effect as the policy of the govern- bama, Tennessee, our factories. The depression of ufacturers keep the field against the trade from the above cause is them—they cannot do it. after all not so sensibly felt. This "Leaving the political question may be deducted from the following out of sight, there is one remedy dles remaining idle.

"A great number of very import- machinery, factories and all." ant petitions are daily presented to Congress for alteration in the exist-ing tariff which may effect some change favorable to the manufac-

ture of cotton goods. . . . "From Rhode Island, that busy cotton cloth-making hive, we learn that about 70 factories have closed. From Lowell and our eastern man-

hear of depression and suspension of manufacturing operations. From East, West, North and South the times are bad, the cotton manufacturers say, and they say so truly. The important question in such a case is, what is the cause?

"One says a higher tariff is wanted, another says it is owing to the Cloth high price of cotton, and a few George Paxton among the great many say it is John Watson

owing to manufacturing too many coarse grades. The first question is a political one, and we will there-fore not discuss it. The other two are so entwined together that we modern looms and if more than two must and readily can establish their truth or falsity. If the demand for cotton cloth was equal to the supply, the high price of cotton would m they have be paid by the consumer, for if folders and cloth must be had it makes no matter whether its price be one shilling or one sixpence.

"There is every reason to believe that the supply has been greater than the demand, for the coarse cotton manufacturers of Britain have long been in a depressed state. the exports being less for the last two quarters in every kind of cotton manufacturing, and taking this into consideration along with the great number of our factories which have done but little for the past six months, we should have expected VARIOUS and sundry explanations some clearance of goods in the mar-have been advanced to explain kets and a respectable advance in the depression in the textile trades. the prices to meet the correspond-Much has been written and said ing high price of cotton; but no low tariff, and overproduction. To goods is manifested, or rather, the these New England has added the markets are as glut-full of cheap erv of Southern competition. The following article cites several ways like to sell cheap. They care "The comparative idleness of our above it, however great the necesalmost impossible to elevate them

"It is our opinion that there have unjust to charge this result to the been too many of our factories engeneral government and the tariff gaged in making coarse cotton goods. alone. The advances in the price At the North, this is self-evident, of the raw material consequent upon for coarse goods can be manufacthe rapidly increasing demand and tured cheaper at the South, and the partial failure of the crop has with the great number of factories as much a tendency to produce this now in operation in Georgia, Ala-South Carolina ment. A high tariff would not have and some other States, how can it prevented the partial stoppage of be expected that our Northern man-

tables showing the number of spin- that we would suggest, and that is dles in the mills of New England to go into the manufacture of finer States and the proportion of spin- fabrics, give your cotton more labor, employ more skill, and spend more "This proves about one-third of for finer machinery. If you do not the whole number of spindles to be take our advice, there is a brave chance for you to lose all your

> . When do you suppose the above was written? Not the day before Not yesterday, but in 1850, by Robert H. Baird, and published in the "American Cotton Control of the ican Cotton Spinner" in 1856 by Phillips, Sampson & Co. The fact that it was written over 70 years ago is of course the principal item

### Maginnis Mills.

37,648 spinning spindles;	1,000 looms.
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J. E. Ameson	Spinner
Joseph Lalla	Weaver
Walter E. Charles	
CILAL D	2 724 - 2 2

HANGERS Line FLANGE OR PLATE COUPLINGS Designed to withstand severe lineshaft service. Flanged to protect the C workman from be-0 ing caught on the U bolt heads or nuts. U Machined all over P to template, making C them interchangeable and therefore Н easily duplicated. E Z Interchangeability is a feature that has made S G THE WOOL S of Power Transmissionary Machinery the standard in so many of the country's largest plants. Catalogue on request T. B. Wood's Sons Co. CHAMBERSBURG, PA. MILTON G. SMITH, Sou Sales Agent, Greenville, S. C.

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Fire Without Having A Cleaning Period On



THOMAS GRATE BAR COMPANY

### Research

(Continued from Page 12)

consumer, work back through the design, and finally arrive at manufacturing. The manufacturing becomes a means to the end of ser-

As yet, the order is not in mind. thoroughly understood. The price relation is not understood. The notion persists that prices ought to be however, is the River Rouge plant, up. On the contrary, good business - large consumption - depends on their going down."

A few instances of the savings are

reviewed and quoted herewith: thousand dollars a year. worked to find uses for the discs, give a direct lake connection by way They found that the plates were of the Detroit River. We use a with the result that they made a Park plant and the River found a use for about 20,000 a plant. day and expect to find further uses for the remainder. ten dollars each by making transwhat is called an chine' with a rolled thread that was to assemble our cars at Detroit, and although by special packing managed to get five or six into a were moving in and out all the time. It is very expensive to knock down cut our coal bill. machines and crate them so that they cannot be injured in transit-Now needs. We now ship the parts to like. our assembling stations all over the gas. we can make it in Detroit and ship than the ordinary price. the part.

pense and is only an indication of We thus not only get a uniform what may be done throughout in-quality of iron according to our own dustry generally, when each part of specifications and directly under our

Recent Accomplishments in a composite article is made at the exact point where it may be made most economically. We are constantly experimenting with every material that enters into the car. We cut most of our own lumber from our own forests. We are experimenting in the manufacture of artificial leather because we use about forty thousand yards of arti-"It is important to bear this order ficial leather a day. A penny here and a penny there runs into large amounts in the course of a year.

The greatest development of all, which, when it is running to its full capacity, will cut deeply and in many directions into the price of everything we make. The whole viewed and quoted herewith: tractor plant is now there. This 'The sweepings net six hundred plant is located on the river on the Experi- outskirts of Detroit, and the propments are constantly going on in erly covers six hundred and sixtythe utilization of scrap. In one of five acres—enough for future devel-the stamping operations six-inch opment. It has a large slip and a circles of sheet metal are cut out. turning basin capable of accommo-These formerly went into scrap. The dating any lake steamship; a short-waste worried the men. They cut canal and some dredging will just the right size and shape to great deal of coal. This coal comes stamp into radiator caps, but the directly from our mines over the metal was not thick enough. They Detroit, Toledo and Ironton Railway, tried a double thickness of plates, which we control, to the Highland cap which tests proved to be plant. Part of it goes for steam stronger than one made out of a purposes. Another part goes to the single sheet of metal. We get 150,- by-product coke ovens which we 000 of those discs a day. We have have established at the River Rouge Coke moves on from the find further uses ovens by mechanical transmission to We saved about the blast furnaces. The low volatile gasses from the blast furnaces are missions instead of buying them, piped to the power plant boilers We experimented with bolts and where they are joined by the sawproduced a special bolt made on dust and the shavings from the body 'upsetting ma- plant-the making of all our bodies has been shifted to this plant-and stronger than any bolt we could in 'addition the coke 'breeze' (the buy, although in its making was dust in the making of coke) is now used only about one-third of the also being utilized for stoking. The material that the outside manufac- steam power plant is thus fired alturers used. The saving on one most exclusively from what would style of belt alone amounted to half otherwise be waste products. Ima million dollars a year. We used mense steam turbines directly coumost exclusively from what would pled with dynamos transform this power into electricity, and all of the machinery in the tractor and the freight car, we needed many hun-body plants is run by individual dreds of freight cars a day. Trains motors from this electricity. In the course of time it is expected that Once a thousand freight cars were there will be sufficient electricity to packed in a single day. A certain run practically the whole Highland amount of congestion was inevitable. Park plant, and we shall then have

"Among the by-products of the coke ovens is a gas. It is piped both to say nothing of the transportation to the Rouge and Highland Park we assemble only plants where it is used for heatthree or four hundreds cars a day tree.

at Detroit—just enough for local ovens, for the car ovens, and the at Detroit—just enough for local ovens, for the car ovens, and the at Detroit—just enough for local ovens, for the car ovens, and the at Detroit—just enough for local ovens, for the car ovens, and the at Detroit—just enough for local ovens, for the car ovens, and the local ovens, for the local ovens, for the local ovens, and the local ovens, for the local ovens, and the local ovens, local ove three or four hundreds cars a day treat purposes, for the enameling The ammonium sulphate is United States, and in fact pretty used for fertilizer. The benzol is a much all over the world, and the motor fuel. The small size of coke, machines are put together there not suitable for the blast furnaces, Wherever it is possible for a branch are sold to the employees-delivered to make a part more cheaply than free into their homes at much less The large it to them, then the branch makes sized coke goes to the blast furnaces. There is no manual handling. The plant at Manchester, Eng- run the melted iron directly land, is making nearly an entire car. the blast furnaces into great ladles. The tractor plant at Cork, Ireland, These ladles travel into the shops is making almost a complete tractor. and the iron is poured directly into This is an enormous saving of ex- the moulds without another heating.

control, but we save a melting of to be a most natural development pig iron and, in fact, cut out a whole in the light of its conspicuous suc-process in manufacturing as well as cess in other industries. making available all our own scrap.

"How far we shall thus reach back management and labor. to sources depends entirely on circumstances. Nobody anywhere can really do more than guess about the future costs of production. wiser to recognize that the future provement on the methods of the day before."

The purpose in citing these accomplishments of Mr. Ford's is to report as follows: show that they have come about The prize of \$100 to be awarded show that they have come about The prize of \$100 to be awarded through the application of research to Philip R. Lowe for his thesis ento every conceivable process and titled, "The Effect of Regain Upon operation, however apparently in-The desire to inquire Worsted Fabric.' significant. into and study these various proc- Honorable mention is awarded to esses or what might be called the G. Kenneth Lewis for his thesis en-Mr. Ford's success as in terms of the benefits accruing to the life of and Evenness of a Cotton Yarn. spirit of research that counts after representing the Lowell Textile all. Given the desire to investigate School; Russell T. Fisher, representing the National Association of itself.

During the last ten years or so berg, representing the Saco-Lowell the textile industry has become Shops.

fully awakened to the needs and opportunities for research in its Saco-Lowell Shops offered a prize proof is needed, is being manifested on all sides. It is to be found in the establishment of mill laboratories; in the articles in trade papers; association meetings and in the attitude of mind of the men in the industry, from the executives down to the operatives themselves. In this day one does not need fear for the future. We are out of the gloom of complacency and into the light of progress which is based on sound development arising out of intendevelopment arising out of int manufacture will follow as a natural result of the research spirit.

management as applied to textile The average count of yarn spun in mills seems bringing this paper to a close, since this type of management is naturally prompted by and is an offspring of the spirit of research. The subject is a large one, properly demanding special treatment by better equipped expounders. However, it is pertinent to mention that scientifications. tific management is properly finding its way into our mills, which seems

The recent meetings of the Tay-"What all this will amount to in lor Society in Boston last April point of savings we do not know— gave ample evidence of this trend, that is, we do not know how great and the papers brought forth many will be the saving, because the plant helpful and valuable facts regardhas not been running long enough ing the principles of scientific manto give more than an indication of agement as applied generally as well what is ahead, and we save in so as to textile manufacturing. If many directions-in transportation, there was a keynote struck in the in the generation of our power, in meetings it was in effect that the the generation of gas, in the expense changes and improvements which in casting, and then over and above are a part of scientific management that is the revenue from the by- must be brought about as a result products and from the smaller sizes of close and sympathetic study on of coke. The investment to accom- the part of management and labor, plish these objects to date amounts with due regard to the proper into something over forty million delterests and aspirations of all groups lars.

#### Winner of Saco-Lowell Prize

The judges appointed to award holds more than the past—that the prize offered by the Saco-Lowell every day holds within it an im-Shops for the thesis of greatest value to the textile industry performed at the Lowell Textile.School during the school year 1923-1924

the Strength and Elasticity of

Honorable mention is awarded to research spirit has thus been amply titled, "A Comparative Study of the rewarded, not so much in terms of Effect of Different Drawing Processes Upon the Strength, Elasticity

Cotton Manufacturers; R. E. Haum-

midst, and the proof of this, if any of \$100 for the thesis of the greatest value to the textile industry prepared by a student of the Lowell Textile School. The basis for judging the merits of the theses in the subjects of discussion in trade originality, thoroughness, breadth of vision, practical utility

#### Japan Operates Fewer Spindles.

3,887,846 spindles operating in Japan in January, 1924, compared with 4,156,019 in February, 1923. according to the report of ral result of the research spirit.

A word in regard to scientific (Yen equals according to the scientific (Yen equals accordi appropriate before the mills of the association is No.

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#### Estimate Crop of 12,144 Bales

Washington, D. C .- The 1924 cotton crop will yield about 12,144 bales of 500 pounds gross. This estimate was made by the United States Department of Agriculture, which reported that the area of cotton in cultivation this year in the United States is about 40,403,000 acres, as compared with 38,701,000 acres, the revised estimate of acreage in cul-tivation a year ago being an increase of 1,702,000 acres, or 4.4 per

The announcement was made by the Crop Reporting Board of the Department of Agriculture on estimates from the reports and data furnished by crop correspondents, field statisticians and co-operating State boards or departments of agriculture and extension departments. It further announced that the condition of the growing crop on June 25 was 71.2 per cent of nor-

"Marked improvement of the cot-ton crop is noted," the department declared in a statement based on condition, "improvement during the last week of the period being especially marked. The condition of the crop is found to be 71.2 per cent of normal, or 5.7 per cent above the condition of 65.5 per cent on May 25. The ten-year average June improvement has been 2 per cent. Consequently the improvement during June of this year was nearly three times as much as averyear also, the condition of the crop on the same date this year is higher by 1.3 per cent. Notwithstanding the June improvement the 71.2 per cent condition of June 25 is 3.6 per cent below the ten-year average of 74.8 per cent on June 25.

"The outlook for the cotton crop is more hopeful than it was at this time last year. If there is dry, hot weather in the Eastern and Gulf States during the next few weeks it will probably mean a material improvement in the prospects of the crop. On the other hand, if weather conditions are favorable for the development of the weevil, very serious damage may occur, as the weevil will probably become prevasufficiently to be safe from danger."

A report of the last available inton crop news continues good for both Upper and Lower Egypt.

25, officially estimated at 71.2, compared with 69.9 for the corresponding date of 1922, with 71.2 for June, 1922, and with a ten-year average, compiled by the Department of Agriculture, of 74.8. It is to be noted, however, that June, 1924, condition has not been exceeded for the

#### W. J. BRITTON & CO. RIVERS, BENDERS and STAPLE COTTON

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month since 1918, when it stood at 85.8. The estimate is nearly three points higher than the combined average of leading unofficial fore-casts of the past few days, but ac-cords with official weekly crop weather reports from the cotton belt, which have consistently shown absence of serious weevil damage and more effective work in its pre-

Condition for a series of month follow, as of the 25th of each month:

1924	May 65.6	June 71.2	July	Aug.	Sept.
1923	71.0	69.9	67.2	54.1	49.5
1922	69.6	71.2	70.78	57.0	50.0
1921	66.0	69.2	64.7	49.3	42.2
1920	62.4	70.7	74.1	67.6	59.1
1919	75.6	70.0	67.1	61.4	54.4
1918	82.3	85.8	73.6	55.7	54.4
1917	69.5	70.3	70.3	67.3	60.4
1916	77.5	81.1	72.3	61.2	56.3
1915	80.0	80.2	75.4	60.2	60.8
1914	74.3	79.6	76.4	78.0	75.6

As also indicated in weekly crop reports, there was a general improvement over May, 1924, condition, which for the whole country was fixed at 65.6. The Government's figures by States show that Alabama was the only leading producer which failed to share the recovery. It held that position throughout June. The largest improvement was recorded in the gain of 14 points by Oklahoma. But the recovery of 13 points in condition by Tennessee, of 10 by Arkansas and 8 by Louisiana also contributes materially to a some-what striking change in the general age. Compared with June 25 of last result. Condition on the 25th of each month in leading producing States follows:

#### Cotton Condition-States.

	June,	May,	June,
	1924.	1924.	1923.
North Carolina	73	71	. 80
South Carolina.	69	68	64
Georgia	75	68	56
Alabama	70	70	68
Mississippi	74	69	67
Louisiana	78	70	69
Texas	70	66	77
Arkansas	68	58	66
Tennessee		54	67
Oklahoma	_ 72	58	64

#### Estimate of Acreage.

Acreage estimated (the first offilent before the crop has advanced cial for 1924) is 40,403,000 acres, compared with 38,709,000 planted in 1923 and 37,130,000 harvested in that formation as to foreign production year. The increase is 1,694,000 acres compiled by the Bureau of Agricul- or 4.3 per cent. At the Govern-tural Economics indicates that cot- ment's calculation of average yield of 143.3 pounds to the acre, the American conrtibution to the gen-The condition of cotton on June eral increase in world production of raw cotton will not be disproportionate. Much of the acreage increase was in the upper part of the cotton belt.

At the estimated rate of acre yield, 143.8 pounds, the Government placed total production at 12,144,000 bales, as against only 10,128,478 in 1923. The 1922 crop was 9,729,306 bales and for 1921 the yield when finally revised down and up stood at 7,977,-778 bales. The outlook according to the Government report is for the nearest approach to formal production since the moderate outturn of 13.270,970 bales in 1920.

#### Wilson Predicts Higher Prices

Rossville, Ga.-J. H. Wilson, treasurer of the Richmond Hosiery Mills, of this city, is sending to accounts of the mills an analysis of present conditions, and he advises retailers to cover on merchandise before a general buying wave starts and forces prices to higher levels. In his letter, Mr. Wilson states:

"In looking over the financial page of the morning paper I was impressed with the fact that call money in New York was going begging at 11/2 per cent to 2 per cent. In the adjoining column was the is afraid to buy. The other 93 per bond market list showing that praccent of us sit back in our slough tically all bonds, particularly Gov- of despondency, wait to see what ernment issues, were really very our neighbor is going to do and ernment issues, were really very our neighbor is going to do and strong and have been steadily ad-afraid to buy until we see prices vancing for some weeks. In another portion of the paper I stumbled buying nearer the top of the maracross the combined statement of the Federal Reserve Bank showing quence is a loss of profit if not total gold reserves over \$3,117,000,000 actual loss of capital when prices against a currency circulation of \$1,000,000,000, or practically \$1.55 in gold for every paper dollar which they have in circulation (the Federal Reserve law only requires per cent in gold to each paper dollar circulated). In other words, the present gold reserve would justify a paper circulation of \$7,792,500,000, than four times the amount actually in circulation today.

able institution has some \$4,700,000,-000, in assets, their total earning assets are only \$850,000,000, a large portion of which consists of Government securities.

"In another portion of the same page, notice comes from the Philadelphia Federal Reserve Bank of the rediscount rate being reduced from 41/2 per cent to 31/2 per cent.

money and a plethora of money that these conditions. is without precedent either in this country or in any country throughout the civilized world.

"What does this portend? I got have given it any thought?

"It is the history of all periods of phase is the disposition of everybody to gather in their money, rethis money has accumulated, laid idle for a time, they look for some investment where safety is the first consideration regardless of returns. This phase is always reflected in the strength of well se-cured bonds. Then, after a time, the holder, becoming more reassur-ed of conditions, begins to look around for other investments where the returns will be larger and more risk as to safety. At this juncture a heavy buying movement usually begins and continues until such time as the surplus money volume is absorbed in business and is always attended with rising prices.

"At the present moment the bank

vaults are bulging with money and investors are clamoring for bonds will bring them some returns for the ide funds. It is my firm opinion that we are now on the threshold of v buying movement that has never been equalled in this country, regardless of whether Democrats or Republicans get control of the Government at the next

"It has been my observation for a long time that only about 2 per cent of people engaged in business really make any money, and further, that this 2 per cent are those people who have the nerve and the foresight to make their purchases when prices are down and everybody else advancing, resulting usually in our ket than the bottom and the conserecede.

"Let us for a moment analyze the situation in textiles. For the past three months mills have been closing down because the prices obtainable for merchandise would not allow enough to pay for actual raw materials and direct labor. When this condition prevails we are somewhere near the bottom of the mar-Spot cotton today is approxi-"Analyzing this statement fur- mately 30 cents a pound. Yet all ther, I note that while this remark- cotton products (and hosiery in particular) are cheaper today than in the summer of 1921 when cotton was around 11 cents a pound. Silk is cheaper than at any time since 1915 and any hosiery manufacturer will tell you (and we are not all liars) that prices at which he is selling are lower than actual cost of production. This must be approximately true in view of the fact that many are closing down their mills "All of this indicates both cheap rather than attempt to run under

"What are we going to do? For my part, I am going to cover on raw materials at the present levels with the confident belief that the to pondering over what this means trade is going to need the merchanto me and wonder if you likewise dise at the present prices and at higher levels within a short time and I truly hope that our customers will cover their needs at the depression that conditions go ers will cover their needs at the through a regular cycle. The first present low prices before the average dealer begins to try to cover his needs, fill his stocks, and thereby causing heavily advancing prices. It will be well worth your time to analyze and compare the situation today with like periods of the past

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### Cotton Goods

markets following the government report, off, although they are now disposed Staple cloths were quiet as the not to attempt formal openings until week ended, and were less active August.

than some of the specialty lines. Frank J. Laffan, export cotton than some of the specialty lines. Frank J. Laffan, export cotton There has been no real improvement goods broker, says of the markets: in the demand for staple domestic "The cotton goods market was exlines, ginghams, percales and col- tremely dull during the past month. ored cottons. Despite the lower Drastic mill curtailment continues, cotton prices, mills and selling but buyers remain indifferent. There agents were not inclined to lower goods prices.

On Saturday there was some business on light weight bag numbers at prices that were an eighth cent lower than current quotations, but this trading was confined to small

were reports of 101/2 cents for 37-48x48, 4.00 yard, hands; 13% cents for 36-inch 64x64, 3.50 yard goods in first hands: 13% cents for 36-inch 48x48, 3-yard goods in second hands. Pajama checks were an eighth cent lower. On sat-eens there were reports of sales of 11% cents in second hands for 37%inch, 64x88, 4.70 yard goods.

Some of the best known mills making duck have been holding for higher prices for some time, reports being current to show that mills have declined business on wide ducks at prices they would have accepted some time ago. Wide at per cent off the lost has been declined. In some cases, buyers have been able to pick up small lots at lower figures.

There was some further business in shadow striped warp sateens with domestic mills, reports showing as many as 15,000 to have been sold.

There was little business in tire of 50 cents for carded peeler square limited quantities.

Their best business is being London, May 19.

cotton goods done on a few numbers, such as markets were quiet during the flock dot voiles, colored suitings and week, the holiday meaning that plain or printed voiles. They have there was practically a four-day been ordering some lots of new market. Gray goods prices were gray cloths of special character and steady as the week ended, although have been showing a few buyers buyers had a tendency to bid lower some new fabrics. As a rule they account of the drop in cotton feel that better business is not far

is little prospect of any change from this procedure until something more definite can be learned as to the size of the cotton crop. It is well understood by the trade that a large yield will be forthcoming should the weather be suitable during July and August, especially so as the acreage planted is the largest on record. On In the sheetings market there the other hand, unseasonable weather will make for a small yield. It is this uncertainty that is restraining buyers from placing commitments in a large way.

Cotton goods prices were quoted

as luliows.	
Print cloths, 28-in., 64x64s	71/4
Print cloths, 28-in., 64x60s	7
Print cloths, 27-in., 64x60s	61/4
Gray goods, 381/2-in., 64x64s	9%
Gray goods, 39-in., 68x72s	10
Gray goods, 39-in., 80x80s_	13
Brown sheetings, 3-yard	14%
Brown sheetings, 4-yard	1134
Brown sheetings, stand.	15%
Ticking, 8-ounce	26
Denims	241/2.
Staple ginghams	15
Kid finished cambrics	9 a10
Dress ginghams	181/2 a 21
Standard prints	934

#### British Yarn Trade Dull.

Although prices of cotton yarns fabrics, quotations being held at have advanced about one penny in previous levels, namely, a low point the past two weeks, this has imparted no stimulus to the trade and woven 14 and 17½-ounce goods and spinners of American yarn claim to 52 cents for cords. The only buying have a smaller manufacturing marspinners of American yarn claim to reported was by small mills wanting gin than has been the case in the limited quantities.

recent past. The volume of busi-Converters of wash fabrics have ness in Egyptian yarn is declining, been making progress in liquidating but spinners are well supplied with stocks of many of their slow selling orders so that the present slackengoods, and the demand of late has ing is being met without difficulty. permitted them to trade at some —Trade Commissioner H. D. Butler,

TRADE MARK

WARP TYING MACHINES HAND KNOTTERS WARP DRAWING MACHINES AUTOMATIC SPOOLERS HIGH SPEED WARPERS

BARBER-COLMAN COMPANY BOSTON, MASS. GREENVILLE, S.C.

MAIN OFFICE AND FACTORY: ROCKFORD , ILL . U.S.A.

### The Yarn Market

Philadelphia, Pa.—Business continued very dull in the yarn market last week and prices showed a decline following the issuance of the Government cotton crop report. Inquiries were less numerous than during the preceding week and buy-ers apparently decided to await further developments.

The prices of practically all carded yarns showed a drop of at least half a cent a pound on Saturday and in some cases the decline was a full cent. Combed yarns were weak but prices held better than for carded yarns. There were a few scattered inquiries for insulating yarns and some of the other coarse carded numbers, but practically no business was done. Aside from the effect of the cotton report, the break caused by the holiday slowed down business to a further extent.

Hosiery mills showed a tendency to buy steadily on a hand-to-mouth basis during the first half of the week and a continuance of this business is expected this week. Underwear manufacturers are more confi- in the Austrian cotton spinning in-dent and have been showing more dustry during March as compared interest in their yarn requirements. Prices on combed yarns are spotty and irregular, with the coarse numbers somewhat better than the finer in February. ers will accept.

from the unfavorable conditions enna, May 9. that have existed for some time. With yarn costs considerably below the cost of production and only a very limited demand at any price, mills have no other alternative than to curtail. The amount of curtailment showed very little change during the past week.

Yarn quotations in this market were quoted as follows:

Two-Ply Ch	nain Warps.
2-ply 8s41 1/2 a.42	2-ply 24s461/2a47
10842½a	2-ply 26s48 a
12s to 14s_43 a44	2-ply 30s49 a
2-ply 16s44 a	2-ply 40s57 a58
2-ply 20s441/2a	2-ply 50s 66 a67
8s40 a41	Skeins.
8s40 a41	40s541/a55
10s to 12_41 1/2 a 42 1/2	40s ex50 a60
14843 a	50s66 a67
16s43½a	60s73 a
20s44 a	Tinged Carpet-
24s46½a	3 and 4-ply_341/2 a35
20s47 a	White Carpet-
30s481/2a49	3 and 4-ply_38 a39
36s54 a	
Part Waste In	sulating Yarn.
6s, 1-ply_34 a	12s, 2-ply_371/a38
8s, 2, 3 and	20s, 2-ply_42 a
4-ply34 a	26s, 2-ply_461/2a
10s, 1-ply and	30s, 2-ply_48 a
2-ply36½a	
	Yarns.
3, 4 and 5-ply—	3, 4 and 5-ply—
8s40 a	16s43 a
10s41 a	20s44 a
12s42 a	

Ξ								
			Singl	le Ch	ain Wa	arps.		
	10s		421/	a	248		47	a
	128		43	a	268		48	a
	148		4334	8	30s		49	a50
5.	16s		_44	8	30s 40s		57	a58
	208		4434	8				
			S	ingle	Skeins			
L				11.00				
	6s to	88	_40	8	208		44	8
	10s		_41	8	248		47	a
Ġ,	128		_42	8	268		48	a 1
	14s 16s		_43	8	308		49	8
	168	-	_434	2B				
Į.				Frame	Cones			
E								
	88:		_40 1/	18	228	-	-44	8
	108		_41	a	24s 26s 28s 30s 30s ty		443/	a
3	128		-41 %	2A	268		45	8
	148		_42	8	288		-46	8
9	168		424	a	308		48	a49
ì	188		-43	8	30s ty	ing in	47	8
5	208		_43	844	40s		-58	a
		Cor	nbed	Peel	er Skei	ns, E	IC.	
5	0 mlar	100	29	OFF	2-ply	500	00	
9	2-ply	200-	00	0.57	2-ply	600	-03	8/12
	2-ply	208	50	0.60	2-ply	700	95	a90
3	2-ply	360	50	0.60	2-ply 2-ply	90e	05	a1 00
8	2-ply	40m	60	0.65	a-bis	008	-00	ar vv
	z-bra	108_	Com	had E	eeler C	ones		
9		100	ou itil	nen i	00101	ones.		
1	10s		50	851	30s		63	a.65
4	128		51	a52	228		63	2.65
	148		52	853	328	The year	65	a67
63	16s		.53	a54	36s		68	a69
y	188			a55				

#### Austrian Market Slightly Better.

There was a slight improvement with February. The production of yarn amounted to 4,330,355 pounds in March as against 4,088,960 pounds bers somewhat better than the finer in February. It is estimated that counts. Efforts of some dealers to if the spindles in Austria operate move their stock yarns has account—at full time, production will exceed ed for much of this irregularity in 5,800,000 pounds. The Austrian Asthe past ten days. Mercerized yarns sociation of Cotton Spinners reports showed no change and quotations that there are 1.096,744 spindles in generally are below what merceriz- Austria, of which 83 per cent were active during March. Spinners see no immediate relief Trade Commissioner E. Zwickel, Vi-

#### Chinese Yarn Market Steady.

The yarn market has been steady during the past month with few price changes and only a fair amount of business. No. 10's are quoted at taels 162 to 168 (tael equals \$10.72) per 400-pound bale, while No. 20's are quoted at taels 183 to 200 per bale.—Trade Commissioner G. C. Howard, Shanghai May sioner G. C. Howard, Shanghai, May

#### Belgian Yarn Goods Dull.

Business in cotton yarn is dull, owing to the uncertainty in the foreign exchange market, with the result that orders are stimulated only by price concessions. There is less talk of short time than was the case a fortnight ago. Most plants are still operating on full time, but only on contracts accumulated before the rise in the franc.

—Acting Commercial Attache S. H. Cross, Brussels, May 10.

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o.			Dian	n.		rei	igu	u.
		2	3/16	in.	8	ft.	10	
		2	7/16	5.5	20	46	0	66
		3	7/16	66	17	44	7	6.6
		2	3/16	65	15	66	7	44
		2	7/16	44	19	6.6	7	46
		2	11/16	66	-9	66	0	46
		2	7/16	6.6	20		0	62
		1	15/16	65	6	46	6	66
		2	5/16	44	8	16	10	66
		2	11/16	44	8	44	8	-66
		1	15/16	44	6	64	6	
2		1	15/16	66	6	. 66	3	46
		2	7/16	-6.6	11	44	4	. 66
		2	15/16	66	10	. 66	0	.6.6
	-	2	3/16	.44	18	66	0	61
	1	1	15/16	44.	15	. 66	0	66
	1	2	7/16	66	6	66	11	
		2	15/16	- 66	10	**	.6	6.6
		2	7/16	66	10	6.6	0	66
1		2	7/16	16	10	44	6	66
		2	7/16	44	6	66	2	4.5
		3	3/16	44	13	44	7	. 44
1		3	3/16	- 66	5	44	9	-
		2	15/16	- 66	9	46	6	44
1		2	7/16	44	.10	44	3	44
		2	7/16	- 4.5	10	44.	0	66
1		2	7/16	. 86	20		0	4.6
1		2	3/16	64	10	4.6	.6	- 64
		4	15/16	81	24	44	4	66

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### Southern Power Co. To

Another step in the waterpower development program of the South- lina. ern Power Company was assured Saturday when announcement was 45,000 made at the offices of this company of plans for the immediate reconstruction of the old Catawba hydroelectric plant located 20 miles south of Charlotte. The new plant will have a generating capacity of 80,000 horsepower, being of the same size as the Mountain Island plant, 12 which was from Charlotte, completed seven months ago, and almost twice the size of the new Rhodhiss plant, development of which was started a few months

The first step in the actual construction of the new Catawba plant Carolinas. was the letting of a contract Saturday afternoon for the building of a railway track from a point near Fort Mill, S. C., to the site of the plant, a distance of five miles. This contract was let to the McDowell Contracting Company, of Marion. Washington, July 2.—"Philippine Work on this railway is to begin retail trade in cotton piece goods immediately, and will be pushed vigorously until the road is ready for traffic

The Catawba plant at present has a head of 25 feet and a generating capacity of 10,000 horsepower. The old dam and plant will form a part indenting in most lines has decreasing units of 20,000 horsepower each, and will have a total generating ca-pacity, therefore, eight times the capacity of the present Catawba

An interesting feature of the new project is that the old Catawba plant will be kept in operation practically junked.

The new Catawba plant will be Meanwhile, however, active preliminary work on the site, as well as the building of the railway, will be gotten under way. This incidental work will include the clearing and the larger reservoir of the new

The announcement of the immepublic generally not only as an evi-B. Duke and his associates in the are quoted at 27.50 centavos \$0.1375) basic soundness of business condi- per yard.' tions. It had been generally understood since the slight increase in basic rates was granted the South-ern Power Company some months ago that the company was planning to proceed with a construction program of considerable magnitude, thus keeping faith with its tacit as-

surance when the rate increase was Rebuild Catawba Plant given that it would attempt as rap-idly as possible to develop power for the rapidly increasing demands of industrial North and South Caro-

> The letting of contracts for the horsepower hydro-electric plant at Rhodhiss and the 40,000 horsepower steam plant at Duncan, S. G., immediately after the rate decision was handed down was the first evidence of the carrying out of the power company's construction program. The beginning of work on this plant within a few months of the contract for the two already mentioned is simply a further unfolding of the plans of the company to supply power as rapidly as it may be needed, or as rapidly as it can be developed, to insure the continued expansion of industrial

#### Chinese Gray Sheetings Control Philippine Trade

Washington, July 2. - "Philippine was very dull during May," according to a cable from Assistant Trade Commissioner Charles P. Goodhue, Manila, June 23, to the Department of Commerce.

"Local prices are declining, and of the new dam which will give an ed. Chinese weaves of grey sheeting effective head of 65 feet. The new are still in control of the market, power plant will have four generatbut there have been some sales of American grey sheetings which are priced at approximately 12 pesos (\$6.00) per 40-yard piece of 36-inch, 48 by 48, 3-yard goods from importers' stock. Stocks of bleached sheetings are light with a fair demand, and there has been some indenting. Bleached goods, 36 inches wide, 68 until the new plant is completed by 72, 434 yards to the pound, are and put into commission. At that quoted at 11.50 pesos (\$5.75) for 36-time, of course, the old power yard lengths. In gray drills, both equipment, now obsolete, will be Japanese weaves still dominating the market. Bleached drill stocks built by the Wateree Power Com-pany with its own organization. ally dull. Stocks of colored drills Contracts for the purchase of the are sufficient to meet the improving machinery will be let very shortly, demand for this line. Stocks of khaki are adequate for the fair de mand in American brands, while those of English goods are heavy with a light demand. There is little inquiry for denims, in which stocks cleaning up of the very consider- are light. Chambray stocks are able area of land which will form light, and an increasing interest is apparent in this line. Stocks of organdies and voiles are large, and the demand poor. Stocks of prints diate beginning of work upon a new with light grounds are small, and power plant will be taken by the of those with colored grounds heavy. The demand for the former is fair dence of the faith of the Southern and for the latter slight. Two-color, Power Company in the Piedmont section of the Carolinas and its ingrounds are priced at approximately dustrial possibilities, but also as an evidence of the confidence of James B. Duke and his associates in the are quoted at 27.50 centages 20.1275.

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8:15 A M Ar	Jacksonville	I.v 8:45 P M

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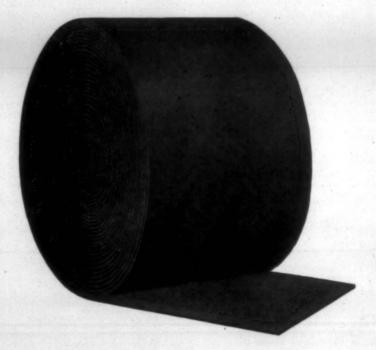
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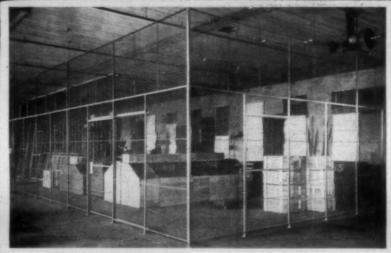
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